Datacommunications Terms

Asynchronous Transfer Mode (ATM): A very high speed network utilizing SONET optical transmission methods through the public telecommunications system.

Baseband Transmission: A transmission method where direct current signals are placed directly onto the transmission medium (cable). Ethernet is a baseband network type, hence, the "Base" in 10Base-T, etc.

Baud Rate: A measure of signal changes per second. Commonly used to rate the speed of a modem.

Bridge: A networking component that links two or more network segments. Bridges are used to split busy networks into separate, less congested segments.

Broadband Transmission: A transmission method where multiple channels are modulated onto separate carrier frequencies. The result is multiple communications channels that occupy specific frequency ranges.

Bus: Also called a "Daisy Chain". A network topology where each node is connected to one another in line. A major disadvantage is that when there is a break in the bus the entire network goes down.

Client Server: A network architecture where multiple user workstations (Clients) communicate with backend servers through a network. Clients are fully operating systems that are capable of processing data.

CODEC: An acronym for COder/DECoder. A device used for converting analog signals to digital signals. For example, telephone companies use codecs to convert binary signals transmitted on their digital networks to analog signals converted on their analog networks.

Converter: A device used to convert from one transmission media to another (Ex. Fiber/Copper Media Converter). Converters are usually externally powered as they physically "repeat" or regenerate the signal.

CSMA: (See Basic Ethernet Theory - right).

Ethernet: (See What is Ethernet - right).

Fiber Distributed Data Interface (FDDI): A 100Mbps fiber optic cabling standard developed by ANSI. FDDI utilizes a dual counter rotating ring topology for network redundancy.

Hub: A network device that receives a signal from one station and retransmits to all other connected stations.

Local Area Network (LAN): A network that remains within one facility (department, office, building, campus).

MODEM: An acronym for MOdulator/DEModulator. Modems are data communications devices that convert digital signals to analog signals for transmission over analog public telephone networks.

Network Interface Card (NIC): Network devices that are installed in computers so that they can be connected to a network. Ethernet NICs come in different speeds as well as with connections to different media types.

Node: A device or station connected to a network.

Peer to Peer: A network architecture where computers connect directly with other computers without the need for servers.

Redundancy: Utilizing multiple access methods so that if one goes down the systems still operate.

Repeater: A network device that regenerates the signal to increase a cabling run.

Router: A network device that interconnects networks. Routers provide traffic control and filtering functions, they are commonly used to connect a LAN to the Internet.

Server: A computing device that provides a service to users on a network (clients). An example is a file server that stores and maintains documents for retrieval.

Small Computer System Interface (SCSI): A peripheral interface that is used to connect devices to a computer.

Star: The most common network topology where each node is connected to a central point. Advantageous because if one part of the star is lost the network remains intact.

Switch: A switch is a multiport bridge that segregates different portions of a network for faster network access (See Basic Ethernet Theory - right).

Synchronous Optical Network (SONET): A Bellcore and ANSI standard that defines transmission of synchronous and time sensitive (ex: real time video) information. SONET provides a way for worldwide carriers to connect equipment.

Token Ring: A networking standard that utilizes a ring topology. Information is put onto the ring which is then passed (Token Passing) to the different stations. The amount of time that a station possesses the token is variable which gives some users priority on the network. Token Ring was standardized by IEEE under the 802.5 standard.

Transceiver: A device used to change one media type to another. Transceivers usually get their power from the NIC.

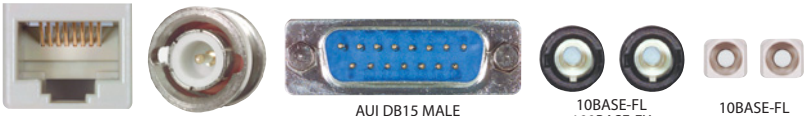
Wide Area Network (WAN): A network that spans a greater distance and needs the involvement of a public carrier.

What is Ethernet?

In the early 1980s, Digital Equipment Corporation, Intel and Xerox developed the Ethernet Local Area Networking format. This technology was soon accepted by the IEEE Committee, creating the 802.3 standard. This standard dictates the use of CSMA/CD (Carrier Sense Multiple Access with Collision Detection) as its accessing scheme. Networks use a variety of NICs (Network Interface Cards), hubs, transceivers, converters, repeaters & switches, as well as different types of transmission media for carrying signals.

- ❒ Accessing Scheme: CSMA/CD - Carrier sense multiple access with Collision Detection.
- ❒ Speed: 10Mbps/100Mbps/1000Mbps (1 GBps).
- ❒ Network Architecture: Coax Bus, UTP Star, Fiber Star

Connectors Commonly Used in Ethernet Environments



10BASE-T RJ45 100BASE-TX RJ45 JACK

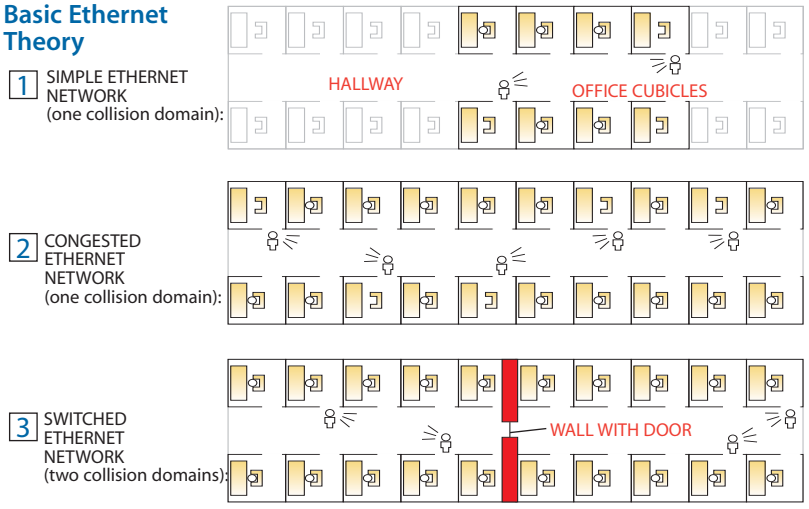
10BASE-2 BNC PLUG

AUI DB15 MALE (used on transceivers)

10BASE-FL 100BASE-FX Dual Fiber ST PLUG

10BASE-FL 100BASE-FX Dual Fiber SC PLUG

Basic Ethernet Theory



1. Ethernet operational theory is quite easy to understand and a simple analogy is helpful to visualize the basics. Imagine a long hallway lined with offices. The hallway represents the physical network, the offices represent the attached stations. When an occupant wishes to speak to another occupant they would lean into the hallway, listen to make sure no one else is engaging in a conversation, then speak out addressing the desired recipient. All other occupants hear the conversation but ignore it knowing it is not directed to them.

In essence, the above analogy describes the medium access method standardized under IEEE802.3 known as *Carrier Sense Multiple Access with Collision Detection* (CSMA/CD). Carrier Sense is analogous to the ability to listen to all conversations (network traffic). Multiple Access is the ability for multiple users to access the medium while data is transmitted.

2. Returning to our analogy, what if two or more occupants decide to speak at the same time? Naturally the overlapping voices would become garbled and indistinguishable. With Ethernet this is known as a collision. In the CSMA/CD method, CD stands for Collision Detection. If a collision is detected by a transmitting station(s) the rule states: stop transmitting immediately, transmit a jamming signal to inform all other stations to stop, then wait a random period (binary exponential backoff) and re-transmit.

Unfortunately, as the quantity of stations increases so does the amount of collisions. This causes the average access time to increase proportionally. This is referred to in the industry as network congestion.

3. Fortunately, there are several ways to alleviate network congestion. One way is that the entire network can be upgraded to Fast Ethernet (100Mbps) which represents a 10 fold increase in transmission speed. This, however requires upgrading of all components and can be rather expensive. Another approach is to add an Ethernet Switch.

In the above analogy, the long hallway represents the network. Adding a two port switch is analogous to dividing the hallway into two shorter hallways separated by a door. This creates two segments (collision domains) where messages that are directed for occupants within the same area are not allowed to pass through the door. Only when a message is directed to another segment does the door open allowing the message to pass.

An Ethernet switch reduces collisions by creating multiple collision domains. This, in most cases, is the most economical approach. A switch can be added to any network without the need to upgrade existing equipment.

What is the difference between standard/fast Ethernet and switched/shared equipment?

This chart explains the basic advantages and disadvantages to using 10 or 100Mbps equipment in a shared (hubs) or switched environment.

	10Mbps Standard Ethernet	100Mbps Fast Ethernet
Switched Topology (Switches)	• Medium speed • Segment bandwidth between power users and low volume users • Economical	• Highest speed • Segment high bandwidth links between power users • Most expensive
Shared Topology (Hubs)	• Lowest speed • Good for workgroups using e-mail, small file transfer and printing • Most economical	• Medium/high speed • Good for all around high bandwidth applications • More expensive

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Planet, Unicom and Metrobility Media Converters

Planet Economy Fast Ethernet and Gigabit Copper to Fiber Media Converters

Planet's line of Fast Ethernet and Gigabit Ethernet Media Converters offer users a cost effective option to convert from Fiber to Copper in a network. The Planet converters make it easy to extend network segments up to 2km over multimode fiber optic cable and up to 15km over singlemode fiber optic cable. Includes a 5VDC power supply and 2-year manufacturer's warranty.

Item #	Description	Maximum Segment Length	List Price
NCPT2-2133	Planet 100Mbps RJ45 to 100Mbps Multimode ST	100m/2km	79.00
NCPT2-2143	Planet 100Mbps RJ45 to 100Mbps Multimode SC	100m/2km	79.00
NCPT3-2133	Planet 10/100Mbps RJ45 to 100Mbps Multimode ST	100m/2km	85.00
NCPT3-2143	Planet 10/100Mbps RJ45 to 100Mbps Multimode SC	100m/2km	85.00
NCPT3-2184	Planet 10/100Mbps RJ45 to 100Mbps Singlemode SC	100m/15km	149.00
NCPT4-214D	Planet 1000Mbps RJ45 to 1000Mbps Multimode SC	100m/220m	129.00

Planet 15 Slot Media Converter Chassis

The PTMC1500 media converter chassis allows for connectivity of up to 15 Planet Ethernet/ Fast Ethernet and Gigabit Ethernet copper to fiber converters in one 19" rack mount chassis. Dual fans with accompanying LED indicators provide at a glance troubleshooting for system cooling. The Chassis features power isolation for each of the 15 converters ensuring each bay is electrically isolated from each other. This power isolation feature ensures uninterrupted connectivity and seamless plug and play module installation. Features a manufacturer's 3-year warranty.

PTMC1500	Planet 15 Slot Media Converter Chassis		239.00

Unicom Ethernet Velocity™ Media Converters - For Stand-alone or Chassis Based Use

Unicom's FEP series media converters offer great flexibility as they can be used in standalone, desktop mode or they can be mounted in a chassis (sold separately). All units offer shielded steel enclosures and run off 5 VDC power supplies which are included. Multiple LEDs indicate status for easy trouble shooting. Lifetime manufacturer's warranty.

FEP5300TFC	Unicom Velocity 10/100TX RJ45 to 100Base-FX Multimode SC	100m/2km	109.00
FEP5300TFT	Unicom Velocity 10/100TX RJ45 to 100Base-FX Multimode ST	100m/2km	109.00
FEP5400TFC	Unicom Velocity 10/100TX RJ45 to 100Base-FX Singlemode SC	2km/15km	285.00

Unicom 10 Slot Velocity™ Media Converter Chassis

Unicom's Velocity™ Media-Chassis/10 accommodates up to 10 Gigabit and Fast Ethernet Velocity Series media converter modules in a single unit. The power supply system is integrated and provides power protection into each bay's supply. The chassis also offers extra protection by isolating each media converter bay from the power bus. The chassis includes two 19" rack-mounting brackets, one fan and one 110/220V power supply. This chassis can only be used with the Velocity Series media converters, which include the FEP5300 and FEP5400 Series converters.

FEP593110	Unicom Velocity 10 Slot Media Converter Chassis		269.00

Metrobility Delta Class 100MB Twister Copper to Fiber Media Converters

The Metrobility Delta Class Twister Media Converters support mixed media networks by enabling copper-to-fiber conversion to extend network distances. The Delta Class products feature a high impact, wall-mountable housing with integrated cable management. Fiber cable lengths of up to 100km are supported through integral signal retiming. LED indicators for Far End Fault also show whether the remote fiber port is receiving a valid signal from the local unit. When Link Loss Carry Forward (LLCF) is enabled, the ports do not transmit a link signal until they receive a link signal from the opposite port. Remote Loop Back testing between the fiber ports allows the user to diagnose cable problems without disconnecting the fiber cables. The Delta Class products feature a 3-year manufacturer's warranty.

LCM133-13	Metrobility 100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	209.00
LCM133-15	Metrobility 100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	209.00
LCM133-1K	Metrobility 100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	249.00
LCM133-14	Metrobility 100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/20km	279.00
LCM133-16	Metrobility 100Base-TX, RJ45 to 100Base-FX, Singlemode ST	100m/20km	279.00
LCM133-1M	Metrobility 100Base-TX, RJ45 to 100Base-FX, Singlemode LC	100m/20km	349.00
LCM133-17	Metrobility 100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	349.00
LCM133-1J	Metrobility 100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	1319.00

Metrobility Delta Class 10/100MB AutoTwister Copper to Fiber Media Converters

The Metrobility Delta Class AutoTwister Media Converters support mixed media networks by enabling copper-to-fiber conversion to extend network distances. This versatile device auto-negotiates from 10Mbps to 100Mbps, allowing existing 10Mbps devices to communicate over a 100Mbps backbone. The Delta Class products feature a high impact, wall-mountable housing with integrated cable management. Fiber cable lengths of up to 100km are supported through integral signal retiming. The AutoTwister includes auto-recovery to automatically restore a link on the fiber line after a link loss event. Auto-recovery works in conjunction with Link Loss Return and Link Loss Carry Forward to identify the loss of a remote network connection. When Link Loss Carry Forward (LLCF) is enabled, the ports do not transmit a link signal until they receive a link signal from the opposite port. The Delta Class products feature a 3-year manufacturer's warranty.

LCM643-13	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	229.00
LCM643-15	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	229.00
LCM643-1K	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	279.00
LCM643-14	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/20km	349.00
LCM643-1M	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Singlemode LC	100m/20km	379.00
LCM643-17	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	369.00
LCM643-1J	Metrobility 10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	1379.00

CALL 1-800-343-1455 NOW
L-com offers the complete selection of listed manufacturer's products.


NCPT2-2133


NCPT3-2133


NCPT4-214D


PTMC1500


FEP5300TFC


FEP593110


LCM133-13


LCM643-13

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Metrobility Stand-alone Media Converters

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LC2152-1A


LC2133-13


LC2643-14


LC2105-13


LC2125-34


LC2731-13

LANCAST® by METROBILITY optical systems

Metrobility-LANCAST Twister Series Stand-alone Media Converters

Growing demands for increased distance support, enhanced data security and scalability have prompted businesses to integrate fiber optics into their current network schemes. As a result, networks today are a mixture of fiber and copper media types. To optimize the performance of your networks, all Twisters provide seamless operation in half duplex or full duplex environments. All signal activity is completely translated ensuring accurate communication and collision detection in connected segments and allowing maximum media length to be achieved on either side of the device. Includes a 3-year manufacturer's warranty.

We Proved It To Ourselves!


By driving over one with a truck, we proved Metrobility-LANCAST Media Converters are the most durable products on the market!


First, we drove over one to see how durable it was. We were amazed to see that it remained intact.


Then we tested it and it worked perfectly - as if it had come right out of its box for the first time!

Gigabit Ethernet (1Gbps) Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2152-1A	1000Base-TX, RJ45 to 1000Base-SX, Multimode SC	100m/220m	759.00
LC2152-1D	1000Base-TX, RJ45 to 1000Base-LX, Singlemode SC	100m/10km	1179.00
LC2152-1F	1000Base-TX, RJ45 to 1000Base-LX, Singlemode SC	100m/25km	1779.00
LC2152-AD	1000Base-SX, Multimode SC to 1000Base-LX, Singlemode SC	220m/10km	1319.00

100Mbps Fast Ethernet Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2133-13	100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	279.00
LC2133-15	100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	279.00
LC2133-14	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/15km	379.00
LC2133-16	100Base-TX, RJ45 to 100Base-FX, Singlemode ST	100m/15km	529.00
LC2133-17	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	629.00
LC2133-1J	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	1799.00

10/100Mbps Fast Ethernet Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2643-13	10/100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	279.00
LC2643-15	10/100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	279.00
LC2643-1K	10/100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	309.00
LC2643-14	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/15km	379.00
LC2643-17	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	419.00
LC2643-1J	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	1419.00
LC2643-1M	10/100Base-TX, RJ45 to 100Base-FX, Singlemode LC	100m/15km	419.00

T1 Copper to Fiber Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2105-13	T1 Copper RJ45 to T1 Fiber, Multimode SC	1.5km/2km	519.00
LC2105-15	T1 Copper RJ45 to T1 Fiber, Multimode ST	1.5km/2km	549.00
LC2105-14	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/15km	589.00
LC2105-16	T1 Copper RJ45 to T1 Fiber, Singlemode ST	1.5km/15km	799.00
LC2105-17	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/40km	869.00
LC2105-1J	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/100km	2009.00

SONET OC-3 and OC-12 Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2125-34	OC-3/STM-1, Multimode SC to OC-3/STM-1, Singlemode SC	2km/15km	559.00
LC2125-37	OC-3/STM-1, Multimode SC to OC-3/STM-1, Singlemode SC	2km/40km	629.00
LC2135-34	OC-12/STM-4, Multimode SC to OC-12/STM-4, Singlemode SC	500m/15km	969.00

100Mbps Fast Ethernet Redundant Twister Stand-alone Media Converters

Item #	Description	Maximum Segment Length	List Price
LC2731-11	100Base-TX, RJ45 to Dual 100Base-TX, RJ45	100m/100m	365.00
LC2731-13	100Base-TX, RJ45 to Dual 100Base-FX, Multimode SC	100m/2km	489.00
LC2731-14	100Base-TX, RJ45 to Dual 100Base-FX, Singlemode SC	100m/15km	899.00
LC2731-15	100Base-TX, RJ45 to Dual 100Base-FX, Multimode ST	100m/2km	489.00

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Metrobility Chassis Media Converters

Item #	Description	Maximum Segment Length	List Price

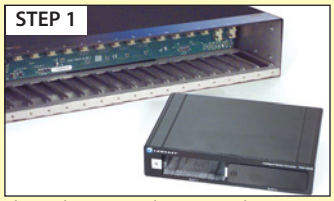
Metrobility-LANCAST Chassis Based Media Converters - Fully Customizable to Suit Your Needs

Metrobility-LANCAST offers several modular chassis options that give you the flexibility to mix and match the popular line of "twister"™ modules to meet requirements for speed, connectivity, distance and redundancy. All intelligent "twister"™ modules offer transparent optical connectivity with low bit delay for maximizing the permitted length of network segments and provide an effective means for integrating singlemode or multimode fiber optic cables as well as coax and Category 5 twisted pair cabling. The new, intelligent Radiance R5000 Central Service Platform provides management capability for any combination of hot swappable, intelligent "twister"™ and "redundant twister"™ modules. Advanced monitoring and management features built into each module allow cost-effective, at-your-own-pace migration to proactive management. All products include a 3-year manufacturer's warranty.

TIP:

How to customize a Metrobility-LANCAST Radiance Series chassis converter.

STEP 1



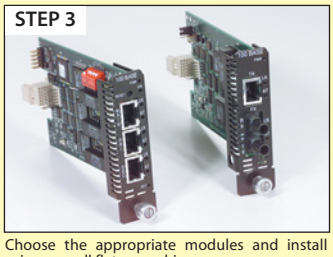
Choose the proper Radiance series chassis to suit your needs. Consider power requirements, power redundancy and the number of slots.

STEP 2



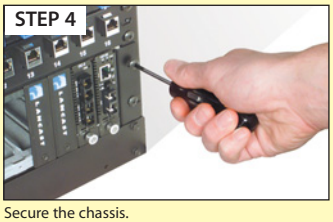
Decide whether you require remote management to monitor your converter. If so select the LCR502-M management module and install.

STEP 3



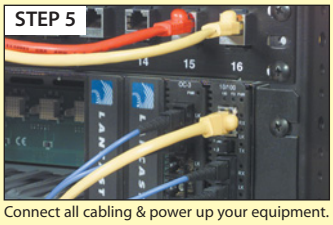
Choose the appropriate modules and install using a small flat screwdriver.

STEP 4



Secure the chassis.

STEP 5



Connect all cabling & power up your equipment.

Metrobility-LANCAST Radiance Series Converter Chassis - 1, 2 and 17 Slot Options

LCR5000-17HS	17 Slot Radiance 19" Rack Mountable Chassis	479.00
LCACPS-17HS	AC Power Supply for the LCR5000 Chassis	109.00
LCDCPS-17HS	DC Power Supply for the LCR5000 Chassis	469.00
LCR1000-AAF	2 Slot Chassis with 2 Front Facing AC Power Supplies	539.00
LCR1000-DDF	2 Slot Chassis with 2 Front Facing DC Power Supplies	539.00
LCR200-AC	1 Slot Chassis with Single AC Power Supply	195.00
LCR200-DC	1 Slot Chassis with Single DC Power Supply	259.00

Metrobility-LANCAST Radiance SNMP Management Module

LCR502-M	SNMP Management Module for Radiance R5000 Chassis	489.00

Gigabit Ethernet (1Gpbs) "Twister" Modules for Radiance Series Chassis

LCR152-1A	1000Base-TX, RJ45 to 1000Base-SX, Multimode SC	100m/220m	489.00
LCR152-1D	1000Base-TX, RJ45 to 1000Base-LX, Singlemode SC	100m/10km	689.00
LCR152-1F	1000Base-TX, RJ45 to 1000Base-LX, Singlemode SC	100m/25km	1519.00
LCR152-AD	1000Base-SX, Multimode SC to 1000Base-LX, Singlemode SC	220m/10km	829.00

100Mbps Fast Ethernet "Twister" Modules for Radiance Series Chassis

LCR231-13	100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	489.00
LCR231-15	100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	449.00
LCR231-14	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/15km	689.00
LCR231-16	100Base-TX, RJ45 to 100Base-FX, Singlemode ST	100m/15km	689.00
LCR231-17	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	829.00
LCR231-1J	100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	2199.00

10/100Mbps Ethernet Intelligent AutoTwister Modules for Radiance Series Chassis

LCR621-11	10/100Base-TX, RJ45 to 10/100Base-TX, RJ45	100m/100m	310.00
LCR643-13	10/100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	209.00
LCR643-15	10/100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	259.00
LCR643-1K	10/100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	309.00
LCR643-14	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/15km	365.00
LCR643-17	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/40km	399.00
LCR643-1J	10/100Base-TX, RJ45 to 100Base-FX, Singlemode SC	100m/100km	1379.00
LCR643-1M	10/100Base-TX, RJ45 to 100Base-FX, Singlemode LC	100m/15km	419.00

10Mbps Ethernet Modules for Radiance Series Chassis

LCR111-12	10Base-T, RJ45 to Thinnet Coax BNC	100m/185m	149.00
LCR111-13	10Base-T, RJ45 to 10Base-FL, Multimode SC	100m/2km	159.00
LCR111-15	10Base-T, RJ45 to 10Base-FL, Multimode ST	100m/2km	125.00
LCR111-16	10Base-T, RJ45 to 10Base-FL, Singlemode ST	100m/14km	539.00

T1 Copper to Fiber Converter Modules for Radiance Series Chassis

LCR105-13	T1 Copper RJ45 to T1 Fiber, Multimode SC	1.5km/2km	349.00
LCR105-15	T1 Copper RJ45 to T1 Fiber, Multimode ST	1.5km/2km	419.00
LCR105-14	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/15km	559.00
LCR105-16	T1 Copper RJ45 to T1 Fiber, Singlemode ST	1.5km/15km	759.00
LCR105-17	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/40km	829.00
LCR105-1J	T1 Copper RJ45 to T1 Fiber, Singlemode SC	1.5km/100km	1939.00

SONET OC-3 and OC-12 "Twister" Modules for Radiance Series Chassis

LCR125-34	OC-3/STM-1, Multimode SC to OC-3/STM-1, Singlemode SC	2km/15km	489.00
LCR125-37	OC-3/STM-1, Multimode SC to OC-3/STM-1, Singlemode SC	2km/40km	559.00
LCR135-34	OC-12/STM-4, Multimode SC to OC-12/STM-4, Singlemode SC	500m/15km	899.00

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LCR502-M


LCR152-AD


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LCR643-13


LCR111-13


LCR105-13


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UTP20058T



UTP20098



UTP20108



UTP20118



UTP20028T



UTP20028TS



UTP20028T-2



UTP20038T



UTP20048TS

Item #	Description	1-9	10-24	25-99	100-249	250-499

Unicom Repeater - Use to Double the 10Base-T UTP Operating Distance

This 10Base-T Repeater is the perfect solution to your long distance cabling headaches. No more cable distance restraints. This Repeater works in conjunction with a 10Base-T hub to double the 100 meter distance of the cable run to workstations. Features POWER, LINK, RCV and COL LEDs. No switches to set and is fully compatible with IEEE 802.3 10Base-T standards. Supplied with external 9V power AC adapter.

UTP20058T	10Base-T Repeater, 2 RJ45 Ports	89.00	81.88	74.76	67.64	CALL

Unicom 10Base-FL/AUI Fiber Optic Transceiver - Dual ST and DB15 Connections

This transceiver conforms with the new IEEE 802.3 Ethernet fiber optic standard (10Base-FL). DB15M and dual fiber optic ST connectors allow connection to any NIC or hub that has an AUI port. Use a pair of these units with a custom made Dual ST fiber optic assembly to complete extended runs up to 2km. Slimline design allows a proper fit into the most narrow slots. Comes complete with six LEDs to simplify troubleshooting time.

UTP20098	Slimline 10Base-FL/AUI Transceiver	149.00	146.02	143.04	140.06	137.08

Unicom 10Base-FL/10Base-T (Fiber/UTP) Converters - Dual ST and RJ45 Connections

These media converters conform with the IEEE 802.3 Ethernet fiber optic standard (10Base-FL). Dual Fiber ST connectors allow connection to 62.5/125 duplex multimode or singlemode cabling and electro optic circuitry transforms the signal to a 10Base-T RJ45 port. Multimode fiber runs can extend up to 2km and singlemode runs to 20km. Two position switch allows 10Base-T connection to a hub or a workstation and seven LEDs indicate network status at all times. Externally powered with 9V DC transformer included. 5 year manufacturer's warranty.

UTP20108	Miniature 10Base-FL/10Base-T Multimode Converter	169.00	165.62	162.24	158.86	155.48
UTP20108-SM	Miniature 10Base-FL/10Base-T Singlemode Converter	400.00	392.00	384.00	376.00	368.00

Unicom 10Base-FL/10Base-2 Converter - Dual ST and BNC Connections

Unicom's XTEND-2/FL converts and repeats the signal from 10Base-2 Ethernet to 10Base-FL for a fiber optic connection up to 2,000 meters. It provides backward compatibility for communication between FOIRL and 10Base-FL links up to 1,000 meters. The converter features a 2-position terminator switch (open or 50 Ohm) for Thin Ethernet termination. The LMON, COL, XMT, POWER, RCV, JAB and BNC/RCV lights simplify troubleshooting and network maintenance.

UTP20118	Miniature 10Base-FL/10Base-2 Converter	179.00	175.42	171.84	168.26	164.68

Unicom 10Base-T/AUI Transceiver - RJ45 and DB15 Male Connections

Use this transceiver to connect your existing thick Ethernet interface card to a 10Base-T UTP network. Converts signals from standard Ethernet transceiver cable to a suitable format for transmission over Unshielded Twisted Pair wires to a hub of your choice. Our mini 10Base-T transceiver does not require any external power. Includes a set switch for enabling or disabling the SQE function for applications that require the SQE test. The POWER/TX, LINK/RCV and COLLISION/JABBER LED lights simplify troubleshooting and network maintenance.

UTP20028T	Miniature 10Base-T/AUI Transceiver	29.00	26.68	24.36	22.04	CALL

Unicom Slimline 10Base-T/AUI Transceiver - RJ45 and DB15 Male Connection

This transceiver offers all the features of the UTP20028T plus a super slim AUI connection. This feature gives the user access to narrow slot spaces such as those found on SUN SPARC, IBM RISC/6000 and Apple Macintosh equipment. Includes full set of diagnostic LEDs to simplify troubleshooting.

UTP20028TS	Slimline 10Base-T/AUI Transceiver	39.00	35.88	32.76	29.64	CALL

Unicom 10Base-T/AUI Transceiver Pigtail - RJ45 and DB15 Male Connections

10Base-T installations are now made simpler and easier with Trans-One. This new design combines transceiver, AUI cable and 15 foot patch cable all in one. It provides a single unit connection from the user's Ethernet Adapter Card to a 10Base-T Hub. Suitable for all user applications and saves dollars over separate transceiver and attachment cables. Trans-One is equipped with LEDs for troubleshooting and network maintenance.

UTP20028T-2	Double Pigtail 10Base-T/AUI Transceiver	30.00	29.40	28.80	28.20	27.60

Unicom 10Base-2/10Base-T Media Converter - RJ45 and BNC Connections

This 10Base-2/T converter is designed to connect your existing Thin Ethernet interface card or Thin Ethernet Network to a 10Base-T UTP network. The unit simply converts signals from Thin Ethernet to a suitable form for transmission over Unshielded Twisted Pair (UTP). It has a three position terminator switch (open, 25 Ohm, 50 Ohm) for varying applications. The POWER, LINK, TPPLR, TPRCV, TPCOL, CXCOL, CXRCV LED lights simplify troubleshooting and network maintenance. Supplied with 9V DC power adapter.

UTP20038T	Miniature 10Base-2/T Converter	59.00	57.82	56.64	55.46	54.28

Unicom Slimline 10Base-2/AUI Transceiver - BNC and DB15 Male Connections

This transceiver offers all the features of the UTP20048T plus a super slim AUI connection. This feature gives the user access to narrow slot spaces such as those on SUN SPARC, IBM RISC/6000 and Apple Macintosh equipment.

UTP20048TS	Slimline 10Base-2/AUI Transceiver	39.00	35.88	32.76	29.64	CALL

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Ruggedized Media Converters and ESL Fiber Switches

Item #	Description	List Price

Metrobility Industrial Ethernet Dual Slot DIN Rail Chassis

The LCRD20-24 is a two-slot, DIN rail chassis, which will accommodate any of Metrobility's wide range of line cards for Ethernet, Fast Ethernet, Gigabit Ethernet and BWDM (single strand bi-directional wavelength division multiplexing). Because it is modular, users can choose the line card which best suits their needs. The LCRD20-24 features an industrial strength enclosure of 20 gauge cold rolled steel (CRS), with a bright zinc chromate finish. The chassis is convection cooled and there are no rotating/moving mechanical parts, i.e. fans guaranteeing critical system uptime. Additionally, the chassis includes dual power inputs with screw-down terminal blocks that support 24Vdc power. Includes a manufacturer's 3-year warranty. (see page 177 for line card info).

LCRD20-24	Metrobility Dual Slot DIN Rail Chassis	139.00


LCRD20-24

RoHS Compliant GarrettCom Industrial 100Mbps 24VDC Copper to Fiber Media Converters

The Magnum 14EH Series Copper to Fiber Media Converters offer users the ability to convert copper Ethernet ports over to Fiber for high EMI/RFI noise environments and extended cable distances. The Magnum 14EH series feature a plenum rated, sealed metal case preventing dust and moisture penetration. The case acts as a heat sink so no internal airflow is required. With a temperature range of -40°C to +75°C, these converters are suitable for most non-controlled environments. The Magnum series converters also feature a Link Pass-Through feature allowing managed switches to "see through" the media converters for checking downstream cable connections. The converters can be DIN rail mounted with the addition of the optional bracket kit. AC powered and 48VDC options available upon request. The Magnum 14EH series includes a 3-year manufacturer's warranty.

NCG2143-24	GarrettCom Industrial Converter 100Mbps RJ45 to Multimode SC	400.00
NCG2133-24	GarrettCom Industrial Converter 100Mbps RJ45 to Multimode ST	400.00
NCG2184-24	GarrettCom Industrial Converter 100Mbps RJ45 to Singlemode SC	700.00
NCG2194-24	GarrettCom Industrial Converter 100Mbps RJ45 to Singlemode ST	700.00
NCG-DIN-KIT	GarrettCom DIN Rail Mounting Kit for NCG21 Series Converters	30.00


NCG2143-24


NCG2133-24


NCG2184-24


NCG2194-24

RoHS Compliant GarrettCom CS14H Hardened Converter/Switch

Combine a 100Mbps Fiber Media Converter and a two-port 10/100 copper Switch and you have a cutting edge converter switch and flexible Ethernet connectivity product. Add in fiber port choices for all multimode and singlemode fiber connector types plus AC or DC input power selection and multiple application environments and you have the Magnum CS14 Converter Switch. The Magnum CS14H Hardened units are for factory floor applications. The CS14H models are built with high-grade components and are constructed using special thermal techniques (patent pending) and a metal case for heavy-duty industrial jobs. In addition to a Hardened AC power option and jack, terminals for internal DC power choices at 8 to 15V, 24V or -48V DC are included. No internal airflow is required for cooling, so the units resist dust, dirt, moisture, smoke and insects. Mounting options include stand-alone panel mounting, DIN Rail or rackmount tray.

GCS14H-SC-24VDC	Garrettcom CS14H Hardened Converter/Switch 2-10/100 1-100FX Multimode SC	280.00
GCS14H-ST-24VDC	Garrettcom CS14H Hardened Converter/Switch 2-10/100 1-100FX Multimode ST	280.00
GCS14H-SSC-24V	Garrettcom CS14H Hardened Converter/Switch 2-10/100 1-100FX Singlemode SC	580.00


GCS14H-ST-24VDC

Item #	Description	1-9	10-24	25-99	100-249	250-499

Fiber Optic SC Duplex Interface Switches

The FS5184 and FS5186 fiber optic SC Duplex Interface Switches allow users to connect a workstation or device between up to three other devices or networks. These switches have a multimode duplex fiber interface and feature internal circuitry ensuring isolation between the devices/networks. A front panel button changes the switch position which is indicated by the front panel LEDs. The units also include an RS232 serial security enhanced Supervisory Remote Port. A terminal or computer in terminal mode connected to this port can communicate with the unit, determine its status, change the switch position as desired and/or lockout front panel switching capability. Access to the Supervisory Remote Port feature is password protected.

FS5184	Fiber Optic SC Duplex Interface A/B Switch	935.00	916.30	897.60	878.90	860.20
FS5186	Fiber Optic SC Duplex Interface A/B/C Switch	1385.00	1357.30	1329.60	1301.90	1274.20

Fiber Optic Switches with a Built in Media Converter

The Fiber Optic Switch with Built in Media Converter allows the user the capability of accessing separate fiber optic 100Base-FX ports (up to 8 ports) from a 100Base-TX Fast Ethernet port (COMMON port). The unit is fully compliant with the 802.3u 100Base-TX/FX standard. The switched ports are 1300nm, SC Duplex Multimode, 100Base-FX fiber optic ports. The COMMON port is a 100Base-TX Fast Ethernet port. The selected fiber optic port will convert and pass data to and from the 100Base-TX COMMON port. The internal circuitry ensures isolation between devices /networks. A front panel button changes the switch position. Switch position status is displayed by the front panel LEDs. The unit also includes an RS232 serial security enhanced Supervisory Remote Port. A terminal or computer in terminal mode connected to this port can communicate with the unit, determine its status, change the switch position as desired and/or lockout front panel switching capability. Access to the Supervisory Remote Port feature is password protected.

FS5185	Fiber Optic 2-Way Switch / Converter	1035.00	1014.30	993.60	972.90	952.20
FS5189	Fiber Optic 4-Way Switch / Converter	1325.00	1298.50	1272.00	1245.50	1219.00
FS5191	Fiber Optic 8-Way Switch / Converter	2375.00	2327.50	2280.00	2232.50	2185.00


FS5184

Item #	Description	List Price

Quasar IQ1000 Gigabit Fiber Smart Switch

The Quasar Smart Switch offers fast, reliable performance with sub-second recovery for mission critical industrial applications. Simply plug and play, the Smart Switch will auto-configure into a self-healing network utilizing our patent-pending Quasar Ring technology on a single fiber. The self-healing ring is automatically created with no spanning tree or complicated design required. If a failure occurs, the redundant single-fiber ring automatically recovers, keeping your network up and running and virtually eliminating downtime. Commercial and Industrial versions are available which support operating temperatures of 0°C to +70°C and -40°C to +85°C respectively. Additionally several long range models are available which support 25km and 40km distances. Contact us today for details.

IQ1000-15	Quasar IQ1000 Gigabit Fiber Smart Switch, 15km	2499.00


FS5189


IQ1000-15

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LCR4000-02


LCR416-A4-A


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LCR426-D4-31


LCR426-D4-51


LCR436-J4-31


LCR436-J4-61


LCR851-1S


LCR851-SS


LC-0211

LANCAST®
by METROBILITY optical systems



Metrobility-LANCAST Coarse Wave Division Multiplexing (CWDM) Solutions

Metrobility-LANCAST's Coarse Wave Division Multiplexing (CWDM) solution includes multiplexing, de-multiplexing and Optical Add/Drop Multiplexer (OADM) functionality with remote optical network access units (ONU). This solution combines the broad range of capabilities of passive optical CWDM technology with Radiance line cards and superior network element management through NetBeacon® Element Manager to achieve maximum flexibility, scalability and manageability. This combination creates a robust and flexible managed point-to-point or ring network solution and is ideal for applications where dedicated bandwidth, enhanced diagnostics and a secure PON connection are required. The CWDM network provides a cost-effective "no new fiber upgrade" solution for adding a new Gigabit Ethernet service backhaul for the new broadband services. Metrobility's CWDM solutions allow users to increase the capacity of existing fiber by utilizing widely spaced, separate wavelengths based on the ITU G.694.2 standard (between 1310nm and 1610nm) within the same fiber pair. These CWDM solutions can support up to sixteen (16) different channels, each carrying up to 1Gbps of bandwidth and is accomplished through the expansion port on the 4-channel multiplexer.

The expansion port allows additional unique wavelengths to be combined on a single fiber pair by 'chaining' multiplexers prior to the final network connection."Drop & Add" and "Drop & Pass" OADM modules provide the ability to terminate ("Drop") one or more of the wavelengths from the fiber locally and allows the other wavelengths to continue ("Pass") to other nodes. Similarly, the "Drop and Add" ability allows a wavelength to be added ("Add") from a local fiber interface and allows the other wavelengths to continue ("Pass") to other nodes. Metrobility's managed CWDM solution utilizes a Metrobility® line card with wavelength-specific SFP pluggable optics configured in an LCR5000 chassis with a management card. All of Metrobility's CWDM products are NEBS Level 1 certified.

Metrobility-LANCAST Chassis (NEBS Level 1 Certified)

Item #	Description	List Price
LCR4000-02	19" 1U Rack Mount Chassis for CWDM Multiplexer and OADM Modules	153.00

Metrobility-LANCAST Multiplexer Modules - SC Connectors

Item #	Description	List Price
LCR416-A4-A	4-Channel CWDM Mux / De-mux Module, 1550, 1570, 1590, 1610nm	1999.00
LCR416-A4-B	4-Channel CWDM Mux / De-mux Module, 1470, 1490, 1510, 1530nm	1999.00
LCR416-A4-C	4-Channel CWDM Mux / De-mux Module, 1390, 1410, 1430, 1450nm	1999.00
LCR416-A4-D	4-Channel CWDM Mux / De-mux Module, 1310, 1330, 1350, 1370nm	1999.00
LCR416-B4	8-Channel CWDM Mux / De-mux Module, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610nm	3899.00

Metrobility-LANCAST Single Channel Drop and Pass Modules

Item #	Description	List Price
LCR426-D4-31	Single Channel Drop and Pass Modules, 1310nm	699.00
LCR426-D4-33	Single Channel Drop and Pass Modules, 1330nm	699.00
LCR426-D4-35	Single Channel Drop and Pass Modules, 1350nm	699.00
LCR426-D4-37	Single Channel Drop and Pass Modules, 1370nm	699.00
LCR426-D4-39	Single Channel Drop and Pass Modules, 1390nm	699.00
LCR426-D4-41	Single Channel Drop and Pass Modules, 1410nm	699.00
LCR426-D4-43	Single Channel Drop and Pass Modules, 1430nm	699.00
LCR426-D4-45	Single Channel Drop and Pass Modules, 1450nm	699.00
LCR426-D4-47	Single Channel Drop and Pass Modules, 1470nm	699.00
LCR426-D4-49	Single Channel Drop and Pass Modules, 1490nm	699.00
LCR426-D4-51	Single Channel Drop and Pass Modules, 1510nm	699.00
LCR426-D4-53	Single Channel Drop and Pass Modules, 1530nm	699.00
LCR426-D4-55	Single Channel Drop and Pass Modules, 1550nm	699.00
LCR426-D4-57	Single Channel Drop and Pass Modules, 1570nm	699.00
LCR426-D4-59	Single Channel Drop and Pass Modules, 1590nm	699.00
LCR426-D4-61	Single Channel Drop and Pass Modules, 1610nm	699.00

Metrobility-LANCAST Single Channel Drop and Add Modules

Item #	Description	List Price
LCR436-J4-31	Single Channel Drop and Add Modules, 1310nm	1289.00
LCR436-J4-33	Single Channel Drop and Add Modules, 1330nm	1289.00
LCR436-J4-35	Single Channel Drop and Add Modules, 1350nm	1289.00
LCR436-J4-37	Single Channel Drop and Add Modules, 1370nm	1289.00
LCR436-J4-39	Single Channel Drop and Add Modules, 1390nm	1289.00
LCR436-J4-41	Single Channel Drop and Add Modules, 1410nm	1289.00
LCR436-J4-43	Single Channel Drop and Add Modules, 1430nm	1289.00
LCR436-J4-45	Single Channel Drop and Add Modules, 1450nm	1289.00
LCR436-J4-47	Single Channel Drop and Add Modules, 1470nm	1289.00
LCR436-J4-49	Single Channel Drop and Add Modules, 1490nm	1289.00
LCR436-J4-51	Single Channel Drop and Add Modules, 1510nm	1289.00
LCR436-J4-53	Single Channel Drop and Add Modules, 1530nm	1289.00
LCR436-J4-55	Single Channel Drop and Add Modules, 1550nm	1289.00
LCR436-J4-57	Single Channel Drop and Add Modules, 1570nm	1289.00
LCR436-J4-59	Single Channel Drop and Add Modules, 1590nm	1289.00
LCR436-J4-61	Single Channel Drop and Add Modules, 1610nm	1289.00

Metrobility-LANCAST Radiance Services Line Card (SLC)

Metrobility-LANCAST's Radiance Services Line Card (SLC) provides an intelligent optical Ethernet demarcation point for deploying Ethernet services in the First Mile. The SLC extends baseline VLAN technologies to enable delivery of multiple, converged end-user services across the first-mile, optical access network. As the CPE demarcation point, the Services Line Card supports the IEEE 802.3ah standard for operations, administration and maintenance (OAM) of Ethernet in the First Mile (EFM). The EFM/OAM standard enables IP-less remote failure indicators including Dying Gasp, frame level loopback, event notification (errored frame seconds) and MIB polling. The Services Line Card also supports Internet-standard management. SNMP can be used for surveillance and fault management, while PING can be used for reachability and latency measurement. Carrier-class management access control protects against denial of service on the management channel.

Item #	Description	List Price
LCR851-1S	10/100/1000Mbps to 1000Base-X SFP	1159.00
LCR851-SS	1000Base-X SFP to 1000Base-X SFP	1239.00
LC-O211-M5	SFP 1000Mbps Multimode LC 500m	225.00
LC-O211-10	SFP 1000Mbps Singlemode LC 10Km	299.00
LC-O211-25	SFP 1000Mbps Singlemode LC 25Km	489.50
LC-O211-40	SFP 1000Mbps Singlemode LC 40Km	1199.00
LC-O211-70	SFP 1000Mbps Singlemode LC 70Km	1539.00
LC-O211-1A	SFP 1000Mbps Singlemode LC 100Km	1739.00

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Item #	Description	List Price

Planet Economy 5 and 8 Port 10/100Mbps SOHO Ethernet Switches

Planet Economy Ethernet switches offer a cost effective way to set up a small network at home or in the office. The 5 and 8 Port switches are compact and easy to install. These switches feature 10/100Mbps auto-negotiation, 1K MAC address table and a 1/1.6Gbps backplane to insure optimum performance. Includes a 7.5VDC power supply and one year manufacturer's warranty.

SWTC-PT305P	Planet 5 Port 10/100Mbps RJ45 Switch	19.95
SWTC-PT308P	Planet 8 Port 10/100Mbps RJ45 Switch	24.95



SWTC-PT305P



SWTC-PT308P

Planet 8 Port 10/100Mbps 1 Port 100FX Fast Ethernet Switches

The Planet SWTC-PT801X Series Ethernet switches are a versatile and economical way to connect 8 10/100 RJ45 Copper ports to a fiber backbone or network via the built in fiber port. These switches are also rack mountable using optional 10-inch and 19-inch rack mount kits, PT-RKE-10A and PT-RKE-10B (sold separately). These versatile switches feature automatic speed and duplex mode sensing, filtering/forwarding rates of 148,800pps for 100Mbps, 14,880pps for 10Mbps, IEEE 802.3x full duplex flow control, half-duplex back-pressure and MDI/MDIX auto-detection.

SWTC-PT801SC	Planet 8 Port 10/100Mbps - 1 Port 100FX MM SC Ethernet Switch	115.00
SWTC-PT801ST	Planet 8 Port 10/100Mbps - 1 Port 100FX MM ST Ethernet Switch	115.00
SWTC-PT801S15	Planet 8 Port 10/100Mbps - 1 Port 100FX SM SC Ethernet Switch	129.00
PT-RKE-10A	Planet 10" Rack Mount Ears	5.00
PT-RKE-10B	Planet 19" Rack Mount Ears	7.50



SWTC-PT801SC



SWTC-PT801ST

Planet 16 Port 10/100Mbps Fast Ethernet Switch

The SWTC-PT1601 features 16 10/100Base TX ports that support auto-negotiation, half and full duplex operation as well as built in MDI/ MDIX auto-detection for easy, plug and play connections. The high performance store and forward filtering and switching function ensures corrupt packets are not propagated through the network.

SWTC-PT1601	Planet 16 Port 10/100Mbps Fast Ethernet Switch	59.00



SWTC-PT801S15

Planet 24 Port 10/100Mbps Fast Ethernet Switch

The SWTC-PT2401 is the perfect high density switching solution for today's high performance Ethernet networks. The switch features 24 10/100Base-TX ports that support half and full duplex operation as well as auto-negotiation. High performance throughput (filtering/forwarding rate: 14,880 packets per second at 10Mbps, 148,800pps at 100Mbps) and dynamic shared memory buffer, enables the SWTC-PT2401 to boost bandwidth, eliminate unnecessary traffic and relieve network congestion.

SWTC-PT2401	Planet 24 Port 10/100Mbps Fast Ethernet Switch	79.00



SWTC-PT1601



SWTC-PT2401

Planet 24 Port 10/100Mbps - 2 Port 10/100/1000 Gigabit Ethernet Switch

The Planet SWTC-PT2620 26 port Fast Ethernet and Gigabit Ethernet switch provides 24 Fast Ethernet Switch ports and two Gigabit Ethernet 10/100/1000 switch ports. Each Fast Ethernet port supports 10/100Mbps and the two Gigabit Ethernet ports support 10/100/1000Mbps as well as Half/Full Duplex mode. With its 8.8Gbps non-blocking switch fabric, 8K MAC Address table, and 802.3x full-duplex flow control support, the SWTC-PT2620 offers wire-speed packet transfer performance without the risk of packet loss. MDI/MDI-X auto detection is provided for direct wire connection to any Ethernet device including switches, hubs, or workstations without requiring a crossover cable. By viewing the front panel LED indicators, users can easily monitor network connection status.

SWTC-PT2620	Planet 24 Port 10/100Mbps Plus 2 Gig Port Ethernet Switch	139.00



SWTC-PT2620

Planet 1000Base-SX/LX Mini-GBIC Modules

The MOD-MGBIC-SX and MOD-MGBIC-LX provide flexible, high speed Gigabit access to the SWTC-PT2400 triple speed Gigabit Ethernet switch. These small form factor GBICs support either multimode or single mode fiber cabling with a maximum distance of 10Km (MOD-MGBIC-LX). These two Mini-GBIC interfaces are ideal for adding an uplink to a server or network backbone.

MOD-MGBIC-SX	Planet 1000Base-SX Mini-GBIC Module	69.00
MOD-MGBIC-LX	Planet 1000Base-LX Mini-GBIC Module	149.00



MOD-MGBIC-SX

MOD-MGBIC-LX

Planet 10/100/1000Mbps Gigabit Ethernet Switch

The Planet five and eight port Gigabit Ethernet switches deliver cost effective, versatile high speed IP data connectivity to the desktop or data closet. These switches feature a compact footprint as well as a non-blocking switching architecture that guarantees wire-speed packet transfer. The RJ45 copper interfaces support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5E cables.

SWTC-PTG502	Planet 5 Port 10/100/1000Mbps Gigabit Ethernet Switch	89.00
SWTC-PTG803	Planet 8 Port 10/100/1000Mbps Gigabit Ethernet Switch	99.00



SWTC-PTG502



SWTC-PTG803

Planet 48 Port 10/100 Fast Ethernet Switch

The Planet 48-Port 10/100Base-TX Fast Ethernet Switch provides an economical and high performance Ethernet switching solution. With increasing bandwidth requirements for local area networks, Planet's SWTC-PT4800 Fast Ethernet Switch is the ideal option to alleviate bottlenecks in client / server and peer-to-peer environments in a cost-effective way. This Switch provides a combination of 48 Fast Ethernet switching ports providing users with high-speed network connections. With its Auto-Negotiation capability, all the RJ45/STP ports can be configured to speeds of 10/20Mbps or 100/200Mbps automatically. In addition, this switch is equipped with the MDI / MDIX auto-detection for easily plug and play connections, regardless of cabling types. Both straight through and crossover cables are supported. The high-performance throughput at filtering/forwarding rate is up to 14,880 packets per second in 10Mbps, and 148,800pps in 100Mbps. Along with its dynamic shared memory buffer, the SWTC-PT4800 can boost bandwidth, eliminate unnecessary traffic and relieve congestion on your critical server path.

SWTC-PT4800	Planet 48 Port 10/100 Fast Ethernet Switch	225.00



SWTC-PT4800

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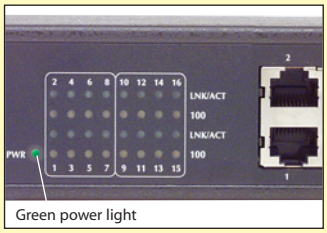
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TIP: *How auto-negotiation works*

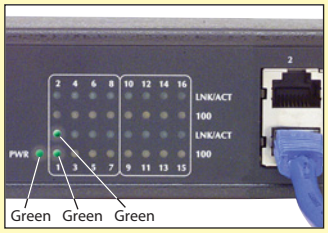
IEEE 802.3 NWay Auto-negotiation is a data communications protocol used with Ethernet switches, routers and media converters. The NWay protocol was developed so that Ethernet devices, which support multiple transmission speeds such as a 10/100, can operate more efficiently. This protocol automatically selects the highest possible common transmission speed between two Ethernet switches, routers or media converters and automatically sets that speed on the port.

Benefits of using NWay Auto negotiation (also referred to as auto-sensing or auto-negotiation) include:

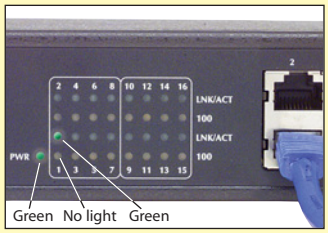
- Network connections that automatically choose the highest performance levels without the a for costly and time consuming manual port configurations.
- Guaranteed network uptime and resiliency. If the NWay protocol detects that a device that is being attached is not of the same technology (i.e. Token Ring to Ethernet connection) the port will not allow a connection or data transfer saving the network from potentially catastrophic downtime.
- NWay Auto negotiation is backward compatible with 10Mbps only Ethernet devices.



Prior to connecting a network device, the link, activity and speed LEDs are not lighted (inactive).



Upon connecting a network device to port 1 of the switch, NWay Auto-Negotiation automatically detects that the connected device is operating at 100Mbps and sets switch port 1 to that speed. The green 100 LED indicates this status.



When a network device is connected that is running at 10Mbps, the 100 LED indicator will not light up indicating NWay Auto Negotiation has set the local switch port to 10Mbps.

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SWTC-32005T (Front View)



SWTC-32005T (Rear View)

SWTC-32008T (Front View)



SWTC-32008T (Rear View)



FEP31016T



FEP31024T



FEP35109T-C



FEP37008F-C



FEP37008F-T



FEP36208F-C



FEP36208F-T



GEP31124T-1



GEP61200T

GEP61200F-C

Item #	Description	1-9	10-24	25-99	100-249	250-499

Unicom's Unmanaged 10/100Mbps Ethernet Switches - 5 or 8 RJ45 Ports

The Mini-Switch 5 and 8 are super compact 10/100Base-TX switches. These parts represent the newest generation in Ethernet switching technology by supporting both 10 and 100Mbps speeds, half or full-duplex transmission modes and Auto MDI/MDIX Crossover checking. Units include a 9 VDC power supply. Includes a 5-year manufacturer's warranty.

SWTC-32005T	Unicom 5 Port 10/100Mbps Unmanaged Ethernet Switch	25.00	24.50	24.00	23.50	23.00
SWTC-32008T	Unicom 8 Port 10/100Mbps Unmanaged Ethernet Switch	30.00	29.40	28.80	28.20	27.60

Unicom's Unmanaged 10/100Mbps Ethernet Switches - 16 or 24 Ports

Unicom's Dyna-Switch Series 16 and 24 Port Unmanaged Ethernet Switches are an affordable and efficient way to upgrade a network. With sixteen or twenty-four 10/100Mbps ports with MDI/MDIX, these switches will fit neatly on a desktop or can be rack mounted with the included mounting brackets. With Full Duplex operation, the switches can increase the bandwidth of the 10Mbps Ethernet port and the 100Mbps Fast Ethernet port to 20Mbps and 200Mbps, respectively. This switch supports IEEE 802.3 full-duplex flow control and half-duplex backpressure congestion control. Includes a manufacturer's limited lifetime warranty.

FEP31016T	Unicom 16 Port 10/100Mbps Unmanaged Ethernet Switch	99.00	97.02	95.04	93.06	91.08
FEP31024T	Unicom 24 Port 10/100Mbps Unmanaged Ethernet Switch	139.00	136.22	133.44	130.66	127.88

Unicom's Unmanaged 10/100Mbps Ethernet Switch - 8 RJ45's + 1 Fiber Port

Unicom's Versa-Switches are high performance, 8 Port 10/100Mb Fast Ethernet switches featuring a fiber optic port available in SC, ST or MT-RJ versions making it an ideal choice for network expansion or delivering fiber to the desktop. Additionally, the eight 10/100Mbps RJ45 Unshielded Twisted Pair ports support both Auto-Negotiation and Auto MDI-MDIX Crossover function that provides an uplink from any port. These versatile and economical switches are great for connecting PC's and servers to a fiber optic backbone.

FEP35109T-C	Unicom 8 Port 10/100Base-TX Switch with 1 SC Multimode	195.00	191.10	187.20	183.30	179.40
FEP35109T-T	Unicom 8 Port 10/100Base-TX Switch with 1 ST Multimode	195.00	191.10	187.20	183.30	179.40
FEP35109T-M	Unicom 8 Port 10/100Base-TX Switch with 1 MT-RJ Multimode	225.00	220.50	216.00	211.50	207.00

Unicom's 8 Port 100Base-FX Multimode Fiber Switches

UNICOM's Pro-Switch/8F has a store-and-forward mechanism and true non-blocking architecture for demanding multimedia imaging applications. The fiber optic connections are ideal for large environments where noise or security is an issue. Connections can be extended up to 2km away over multimode fiber optic cables. The Unicom Fiber switch is ideal as a central backbone switch linking other copper switches of hubs that each have a fiber backbone connection. Includes a 5-year manufacturer's limited warranty.

FEP37008F-C	Unicom 8 Port 100Base-FX Dual SC Multimode Switch	995.00	975.10	955.20	935.30	915.40
FEP37008F-T	Unicom 8 Port 100Base-FX Dual ST Multimode Switch	995.00	975.10	955.20	935.30	915.40

Unicom's Multimode Fiber Switch with 6 100Base-FX Fiber Ports and 2 10/100Mbps RJ45 Ports

Unicom's Pro-Switch/206F has a store-and-forward mechanism and true non-blocking architecture for the most demanding multimedia imaging applications. The fiber optic connections are ideal for large environments where noise or security is an issue. Connections can be extended up to 2km away over multimode fiber optic cables. A simple connection to existing RJ45 switches can be made using the built-in 10/100Mbps copper ports. This switch is ideal as a central backbone linking other copper switches or hubs that each have a fiber backbone connection. Includes a 5-year manufacturer's warranty.

FEP36208F-C	Unicom 6 100Base FX-SC Plus 2 10/100TX Ethernet Switch	899.00	881.02	863.04	845.06	827.08
FEP36208F-T	Unicom 6 100Base FX-ST Plus 2 10/100TX Ethernet Switch	899.00	881.02	863.04	845.06	827.08

Unicom's Smart 24 Port 10/100Mbps Ethernet Switch with Dual 100/1000 Uplink Module

Unicom's GEP31124T-1 is a 24-port 10/100Base-TX switch with a Dual Port 100/1000 Module Slot and VLAN capability. The GEP31124T-1 represents the newest generation in Fast Ethernet switching technology by supporting both 10Mbps or 100Mbps speed and half or full duplex transmission modes on the same port. Furthermore, the switch supports store-and-forward mechanisms and true non-blocking architecture for the most demanding multimedia imaging applications. A backbone dual port uplink is available for easy Gigabit or Fast Ethernet network expansion. The Smart Switch also supports IEEE 802.1q VLAN grouping, enabling the system manager to group users logically.

GEP31124T-1	24 Port 10/100 TX Smart Switch with Dual Gig Uplink	179.00	175.42	171.84	168.26	164.68
GEP61200F-C	2 Port 100Base-FX (SC Multimode) Module, 2km	139.00	136.22	133.44	130.66	127.88
GEP61200F-C-SM	2 Port 100Base-FX (SC Singlemode) Module, 15km	439.00	430.22	421.44	412.66	403.88
GEP61200T	2 Port 100/1000Base-T Module,100m	110.00	107.80	105.60	103.40	101.20
GEP61200L-C	2 Port 1000Base-LX (SC Singlemode) Module, 10km	699.00	685.02	671.04	657.06	643.08
GEP61200S-C	2 Port 1000Base-SX (SC Multimode) Module, 500m	345.00	338.10	331.20	324.30	317.40

E-mail: sales@L-com.com Fax: 978-689-9484 Toll Free: 1-800-343-1455 Hours: Mon - Thu 8am-6pm, Fri 8am-5pm EST

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NETGEAR and 3Com Switches

Item #	Description	List Price

NETGEAR's 5, 8 and 16 Port 10/100Mbps Ethernet Switches

NETGEAR Fast Ethernet Switches provide your LAN with high-speed, 10/100Mbps auto-sensing connectivity. Just plug in your Ethernet cables and connect a power cord - it's self-configuring, so you're ready to go. Engineered without the need for an internal fan, it operates silently. This very compact switch is housed in a sturdy metal case for years of dependable use. Includes a 5-year limited manufacturer's warranty.

SWTC-FS105NA	NETGEAR 10/100Mbps 5 Port Switch	43.75
SWTC-FS108NA	NETGEAR 10/100Mbps 8 Port Switch	59.95
SWTC-FS116NA	NETGEAR 10/100Mbps 16 Port Switch	85.00

NETGEAR's 24 Port Rackmountable 10/100Mbps Ethernet Switch

The NETGEAR 24 Port Rack mountable 10/100Mbps Fast Ethernet switches provide a cost-effective way to instantaneously boost network center performance while preserving most of your network investment! Each port automatically senses and operates at the proper speed and duplex mode, taking the burden of configuration off the user. This NETGEAR switch is ideal for delivering large amounts of multimedia, image, and video information to end users at speeds comparable to their hard drives.

SWTC-FS524NA	NETGEAR 10/100Mbps 24 Port Rackmount Switch	145.00

NETGEAR's 5 and 8 Port Gigabit Switches

NETGEAR's Gigabit Switches offer users high-speed network connections in a compact cost effective switch. The GS series switches feature auto-negotiation between 10, 100 and 1000Mbps connections allowing users to migrate to higher speeds over time. With Auto uplink and full duplex operation, the NETGEAR Gigabit switches make connections simple and fast. Includes an external power supply and a 5-year manufacturer's limited warranty.

SWTC-GS105NA	NETGEAR 10/100/1000Mbps 5 Port RJ45 Switch	99.00
SWTC-GS108NA	NETGEAR 10/100/1000Mbps 8 Port RJ45 Switch	115.00

NETGEAR's 24 Port 10/100/1000Mbps plus 2 SFP Gigabit Ethernet Switch

This NETGEAR 24-port Gigabit Ethernet switch is high on value and capability. With 24 10/100/1000Mbps ports, each capable of powering 2,000 Mbps of data throughput in full-duplex mode, plus two optional fiber ports, the SWTC-GS724T provides a fast backbone and connects servers or power users, delivering large amounts of multimedia, image and video information in no time at all. In addition, an intuitive, web-browser interface offers simple Smart Switch management, making it a snap to monitor switch performance, configure ports, even set up port trunks, VLANs and traffic prioritization. Alternatively, use SNMP-based software to manage your Smart Switch.

SWTC-GS724T	NETGEAR 10/100/1000Mbps 24 Port plus 2 SPF Gigabit Ethernet Switch	459.00

NETGEAR's 16 and 24 Port Rackmountable Gigabit Switches

NETGEAR's 16 and 24 port Rackmountable Gigabit Switches offer users a high-speed backbone connection for their office network. Each port features automatic speed detection for 10/100/1000Mbps, full or half duplex sensing, plus Auto Uplink saving users the hassle of configuring ports. Up to 2000Mbps worth of data can be transmitted over each port giving users the ability to quickly send large amounts of multimedia, image and video information across the network. This NETGEAR product includes the rackmount kit, power supply and features a 5-year manufacturer's limited warranty.

SWTC-GS516TNA	NETGEAR 10/100/1000Mbps 16 Port Gigabit Switch	389.00
SWTC-GS524TNA	NETGEAR 10/100/1000Mbps 24 Port Gigabit Switch	539.00

3Com® OfficeConnect® 5, 8 and 16 Port 10/100Mbps Ethernet Hubs

If you need the power and speed of 100BASE-TX networking, but don't need management capability-our 3Com OfficeConnect Dual Speed hubs are the right choice for your small office. These reliable, plug-and-play hubs also offer a smooth way to migrate to Fast Ethernet performance for maximum growth and flexibility by connecting both Ethernet and Fast Ethernet PCs or network devices. These units features five, eight or sixteen 10/100Mbps Ethernet hub ports that automatically sense and match the speed of an attached network device to optimize performance. Designed as Class II repeating hubs, OfficeConnect Dual Speed hubs can be connected to other Fast Ethernet hubs and switches as high-speed bandwidth needs increase. Runs on 120V external power supply, which is included. Lifetime limited manufacturer's warranty.

HUB-3C16755	3Com - 5 Port 10/100Mbps OfficeConnect Hub	65.00
HUB-3C16753	3Com - 8 Port 10/100Mbps OfficeConnect Hub	85.75
HUB-3C16754	3Com - 16 Port 10/100Mbps OfficeConnect Hub	175.00

RoHS Compliant 3Com® OfficeConnect® 5, 8 and 16 Port 10/100Mbps Ethernet Switches

Specifically designed for small businesses and offices, OfficeConnect switches provide cost-conscious businesses with the foundation of an integrated system of small-office networking. 3Com OfficeConnect switches are available in a variety of port densities and stack up to four units high. The OfficeConnect switches also feature the latest 10/100Mbps auto-sensing technology, allowing users to migrate to higher speeds when needed. Runs on 120V external power supply, which is included. Lifetime limited manufacturer's warranty.

SWTC-3C16790A	3Com - 5 Port 10/100Mbps OfficeConnect Switch	45.00
SWTC-3C16791A	3Com - 8 Port 10/100Mbps OfficeConnect Switch	63.00
SWTC-3C16792A	3Com - 16 Port 10/100Mbps OfficeConnect Switch	89.00

3Com® SuperStack® 3 Baseline 16 and 24 Port 10/100Mbps Switches

The 3Com SuperStack 3 Baseline 10/100Mbps Switches are the ideal solution designed to meet the performance demands of midsize business networks and branch offices. The units deliver reliability and ease of use without the complexity of network management. Backed by a lifetime limited warranty the SuperStack 3 Baseline 10/100Mbps Switches are designed for years of trouble-free operation. No configuration is required. Simply plug the unit in and it delivers consistent, robust performance, assuring you peace of mind. Runs on 120V external power supply, which is included. Lifetime limited manufacturer's warranty.

SWTC-3C16470	3Com - 16 Port 10/100Mbps SuperStack 3 Switch	115.00
SWTC-3C16471	3Com - 24 Port 10/100Mbps SuperStack 3 Switch	159.00

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SWTC-FS105NA


SWTC-FS108NA


SWTC-FS524NA


SWTC-GS105NA


SWTC-GS108NA


SWTC-GS724T


SWTC-GS524TNA


HUB-3C16753


HUB-3C16754


SWTC-3C16791A


SWTC-3C16792A


SWTC-3C16470


SWTC-3C16471

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SWTC-EZXS55W


SWTC-EZXS88W


SWTC-EZXS16W


SWTC-EF3116


SWTC-EF3124


SWTC-EF4116


SWTC-EF4124


SWTC-SD2005


SWTC-SD2008


SWTC-SR2016


ESM41-ST


ESM81-SC

Linksys EtherFast® 10/100Mbps 5, 8 or 16 Port Workgroup Switches

Linksys EtherFast 10/100Mbps Workgroup Switches allow quick and easy migration to Fast Ethernet's 100Mbps speed. Every Switch includes a complete suite of advanced data error detection and correction features for surefire communication every time. Auto partitioning, data-collision control, signal regeneration and incoming frame retiming ensure that not a single bit of data is lost, even during heavy network traffic. Available in 5, 8, or 16 port configurations. Includes a 5-year limited manufacturer's warranty.

Item #	Description	List Price
SWTC-EZXS55W	EtherFast 10/100Mbps 5 Port Auto-Sensing Switch	32.95
SWTC-EZXS88W	EtherFast 10/100Mbps 8 Port Auto-Sensing Switch	54.00
SWTC-EZXS16W	EtherFast 10/100Mbps 16 Port Auto-Sensing Switch	85.00

Linksys EtherFast 10/100Mbps Ethernet Switches with Optional Fiber Module Slot

Linksys EtherFast 3100 Series 10/100Mbps Ethernet Switches will boost your network performance with full duplex data transfer and dedicated bandwidth. This series features non-blocking, wire-speed switching that forwards packets quickly. Address Learning and Aging and Data Flow Control help prevent packet collisions and data transfer errors. The EtherFast 3100 series is rack mountable and includes an Expansion Slot that accepts an optional Fiber Module to link to other switches in full duplex mode up to 2000 meters (6560 feet) away. Includes a one-year limited manufacturer's warranty.

SWTC-EF3116	Linksys EtherFast 16-Port 10/100Mbps Ethernet Switch with Optional Module Slot	139.00
SWTC-EF3124	Linksys EtherFast 24-Port 10/100Mbps Ethernet Switch with Optional Module Slot	159.00
MOD-EF31SC	Linksys 100Mbps Multimode SC Fiber Uplink Module	129.00
MOD-EF31ST	Linksys 100Mbps Multimode ST Fiber Uplink Module	110.00

Linksys EtherFast 10/100Mbps Ethernet Switches

Linksys EtherFast 4100 Series 10/100Mbps Ethernet Switches will boost your network performance with full duplex data transfer and dedicated bandwidth. This series features non-blocking, wire-speed switching that forwards packets quickly. Address Learning and Aging and Data Flow Control help prevent packet collisions and data transfer errors. The EtherFast 3100 series is rackmountable and includes a one-year limited manufacturer's warranty.

SWTC-EF4116	Linksys EtherFast 16-Port 10/100Mbps Ethernet Switch	89.00
SWTC-EF4124	Linksys EtherFast 24-Port 10/100Mbps Ethernet Switch	139.00

Linksys 5, 8 and 16 Port 10/100/1000 Gigabit Ethernet Switches

The Linksys 10/100/1000 Gigabit Switches provide non-blocking, wire speed switching for your 10, 100 and 1000 Megabit network clients. By utilizing these switches you can upgrade your high-speed workstations to full Gigabit speeds as necessary, while continuing to service other clients at their current speeds. These switches are a perfect solution for graphics, multimedia and other applications that have to move large files across the network quickly. All ports support automatic MDI/MDI-X crossover detection, auto-negotiation for speed as well half- or full-duplex mode. Warranty/Returns: This product is covered by a manufacturer's limited lifetime warranty. All returns will be accepted within 30 days from the original invoice date. After 30 days, the product must be returned to the manufacturer for replacement or repair. Please contact L-com Customer Service at 800-341-5266 for more information.

SWTC-SD2005	Linksys 5 Port 10/100/1000 Desktop Gigabit Ethernet Switch	75.00
SWTC-SD2008	Linksys 8 Port 10/100/1000 Desktop Gigabit Ethernet Switch	169.00
SWTC-SR2016	Linksys 16 Port 10/100/1000 Rackmount Gigabit Ethernet Switch	315.00

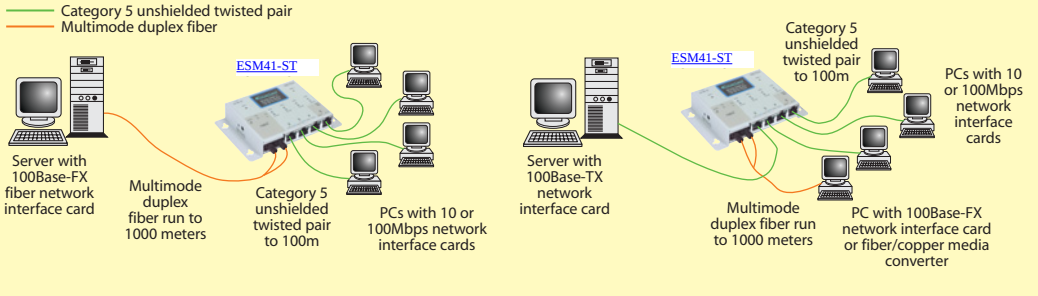
Ethercom 10/100Mbps Switch - 4 or 8 Shielded RJ45s + 1 100FX Fiber Port

The Ethercom ESM41 and ESM81 series switches are economical, high performance Layer 2 switches which can be used in any standards based Ethernet network. The units have either four or eight auto negotiating 10/100Base-TX ports as well as one 100Base-FX, SC or ST 100Base FX fiber port. Easy to read LEDs identify collisions, half/full duplex, link/activity and network speed (10Mbps or 100Mbps). The ESM41 and ESM81 easily mount to walls with the included mounting brackets. Each unit ships with a 12VDC external power supply. All products are backed by 15 year manufacturer's warranty. Made in USA.

ESM41-ST	Ethercom 5 Port 10/100Mbps Switch, ST Fiber	295.00
ESM41-SC	Ethercom 5 Port 10/100Mbps Switch, SC Fiber	295.00
ESM81-SC	Ethercom 9 Port 10/100Mbps Switch, SC Fiber	339.00

TIP: *Common uses for the ESM41*

Note: The ESM41/81 is also great for industrial ethernet factory environments. The unit offers fully shielded construction, brackets for easy wall mounting and a 15 year warranty.



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Item #	Description	List Price

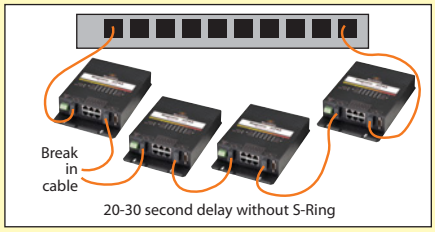
GarrettCom Managed Industrial 10/100Mbps 24VDC Switches

GarrettCom's Magnum mP62F Series Managed Industrial Switches offer users the ability to install managed switches into temperature uncontrolled environments. The Magnum mP62F switches feature a sealed metal case that also acts as a heat sink, to draw away the heat from the internal electronics. Menu-driven software supports managed edge-switching functions including SNMP, QoS, Telnet, Password Security, Spanning Tree Protocol, Port Based VLANs, Boot/P / DHCP and Port Settings Control. GarrettCom's Link-Loss-LearnTM allows rapid operating recovery from a link loss fault. The Magnum mP62F features an extended operating temperature range of -40°C to +70°C. AC powered switches are available upon request. Includes a 3-year manufacturer's warranty.

GMP62F	GarrettCom Managed Industrial Switch 6-RJ45	1090.00
GMP62F-2MSC	GarrettCom Managed Industrial Switch 6-RJ45 plus 2 Multimode SC	1250.00
GMP62F-2SSC	GarrettCom Managed Industrial Switch 6-RJ45 plus 2 Singlemode SC	1800.00
MP62-DIN-KIT	GarrettCom DIN Rail Mounting Kit for GMP62F Series Switches	25.00

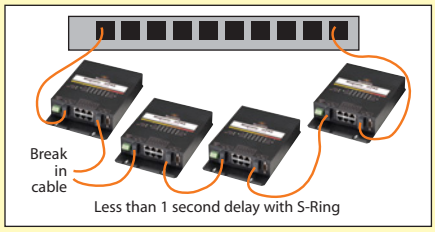
TIP: *GarrettCom's S-Ring Technology*

GarrettCom's S-Ring™ technology enables the Magnum™ 6K Managed Switches to simplify and speed up recovery from faults in Ethernet LAN configurations that use a ring structure. S-Ring is built upon networking software standards including IEEE 802.1d Spanning Tree Protocol (STP). The user configures and controls S-Ring as part of the Magnum 6K Switch's management software. The S-Ring products can be used in multi-vendor LANs running standards based STP on the Magnum 6Ks along with other switches and hubs in any redundant LAN topology, including rings and meshes. S-Ring technology makes Ethernet ring-topology more reliable and faster without sacrificing the benefit of standards-based interoperability.



20-30 second delay without S-Ring

Without S-Ring enabled, standard Spanning Tree reconvergence can take between 20-30 seconds, allowing for costly seconds of network downtime.



Less than 1 second delay with S-Ring

With S-ring enabled on the Magnum 6K switch ports, rapid reconvergence is achieved in less than 1 second ensuring network uptime.

IP67 Rated Industrial Ethernet Switch

This Industrial Ethernet Switch offers the ultimate in harsh environment networking support. The switch can be mounted directly onto any surface without the need for an enclosure. The WJRR8 is a store and forward switch with address auto-learning and 10/100Mbps auto-negotiation to enhance bandwidth efficiency and aid determinism for control applications. This unit is Class I/Div2 and IP67 rated for use in hazardous environments. See page 73 for IP67 rated jumpers and connectors. Includes 1-year limited manufacturer's warranty.

SWTC-WJRR8	10/100Mbps IP67 Rated 7 Port Switch	759.00

LAVA Ethernet-to-Serial 4 Port Device Server

Ideal for POS systems, security systems, industrial automation, building automation or any application using RS232 devices, the LAVA ES4-232 provides four serial ports that are network enabled, simple to install, configure and control. Any serial device can send its information to the ES4-232, which then places that information on the Ethernet network. Four DB9, RS232 serial ports of the LAVA ES4-232 look and act precisely like they are built into your computer: they appear alongside other serial ports in the Windows' Device Manager. The serial ports support 115.2 kbps throughput rate each. Additionally, each ES4-232 includes Lava Ether Link Manager software making this the easiest device in its category to install and use. By utilizing the ES4-232 one PC is capable of managing hundreds of serial ports, even remotely.

ES4-232	LAVA Ethernet-to-Serial 4 Port Device Server	269.00

Abound 802.11b Wireless Ethernet Dual SerialBridge

The Abound ARS1120 802.11b wireless Dual SerialBridge easily brings a wireless connection to any serial device in a simple and secure manner. The ARS1120 has a broad range of networking functions utilizing TCP/IP and UDP/IP to provide serial tunneling. It is easy to set up using a secure web browser. Its flash-upgradeable firmware provides future upgradeability. Security features include 64 bit and 128 bit WEP (Wired Equivalent Privacy) encryption.

ARS1120-001	Abound WLAN Dual SerialBridge	249.95

Abound RS232, RS422, RS485 to Ethernet Dual SerialBridge

The Abound ARS1200 Ethernet Dual SerialBridge provides connectivity to any RS232, RS422 or RS485 serial device via an Ethernet LAN in a simple and secure manner. The ARS1200 enables remote accessibility for services and support to any legacy serial devices within a wired Ethernet LAN environment. It is extremely easy to set up via web browser with password protection.

ARS1200-001	Abound Ethernet Dual SerialBridge	179.95

Abound Serial to Ethernet Fiber Optic Dual SerialBridge

The Abound ARS1300 Ethernet Optical Dual Fiber Dual SerialBridge provides connectivity between an Ethernet LAN and serial devices via Multimode or Singlemode fiber optic cabling. This product features one Fiber ST (or SC) interface that connects to an Ethernet LAN. The maximum fiber distance supported is 120Km. Flash-upgradeable firmware provides future ease of upgradeability support and services. Several Singlemode versions are available please call for details.

ARS1300-220C	Abound Ethernet Fiber Dual SerialBridge, Singlemode SC	449.95
ARS1300-220T	Abound Ethernet Fiber Dual SerialBridge, Singlemode ST	449.95

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GMP62F


GMP62F-2MSC


GMP62F-2SSC


SWTC-WJRR8


ES4-232


ARS1120-001


ARS1200-001


ARS1300-220C

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RS20800T1T1SDAE


RS21600T1T1SDAE


RS20800M4M4SDAE


RS20800M2M2SDAE

M-SFP-LX/LC




MS2108-2


MS3124-4


MS4128-5


MM2-4TX1


MM2-4FXM3


MM2-2FXM2


MM2-2FXS2


MM2-2FLM4


MM2-2FXM3/2TX1

RoHS Compliant One or more items in a product family are RoHS compliant and/or partially compliant. Access **www.L-com.com** for latest status.

Item #	Description	List Price

RoHS Compliant Hirschmann OpenRail RS20/RS30 Managed 24V DC Industrial Ethernet Switches

Hirschmann's new OpenRail line of managed industrial Ethernet switches takes advantage of evolving technologies by providing greater functionality and lower cost. These managed switches are an update to the RS2/Rail switches. The Rail family (RS20 & RS30) includes more port options with 4, 8, 16 or 24 Fast Ethernet ports and the option of two Gigabit Ethernet ports (RS30). These switches are available with a choice of "enhanced" or "professional" firmware. Users can decide which functionality their application requires and select the appropriate firmware option without having to pay for features they do not need. Features like IGMP Snooping and HIPER Ring are available in all OpenRail switches. These robust switches also feature a USB port for backing up and restoring the configuration using an Auto-Configuration Adapter or USB drive.

RS20800T1T1SDAE	OpenRail Switch 8 10/100TX	1269.00
RS21600T1T1SDAE	OpenRail Switch 16 10/100TX	2125.00
RS20800M4M4SDAE	OpenRail Switch 6 10/100TX 2 Multimode ST	1525.00
RS20800M2M2SDAE	OpenRail Switch 6 10/100TX 2 Multimode SC	1525.00
RS20800S2S2SDAE	OpenRail Switch 6 10/100TX 2 Singlemode SC	2995.00
RS30802O6O6SDAE	OpenRail Switch 8 10/100TX 2 Gig SFP	1700.00
RS32402T1T1SDAE	OpenRail Switch 24 10/100TX 2 10/100/1000TX	3169.00
M-SFP-SX/LC	SFP 1000BASE-SX LC 550m	299.00
M-SFP-LX/LC	SFP 1000BASE-LX LC 20km	569.00
M-SFP-LH/LC	SFP 1000BASE-LX LC 70km	2874.00
M-SFP-LH+/LC	SFP 1000BASE-LX LC 120km	4789.00

Hirschmann (MICE) Managed Modular 8 Port Ethernet / Fast Ethernet Rail Switch

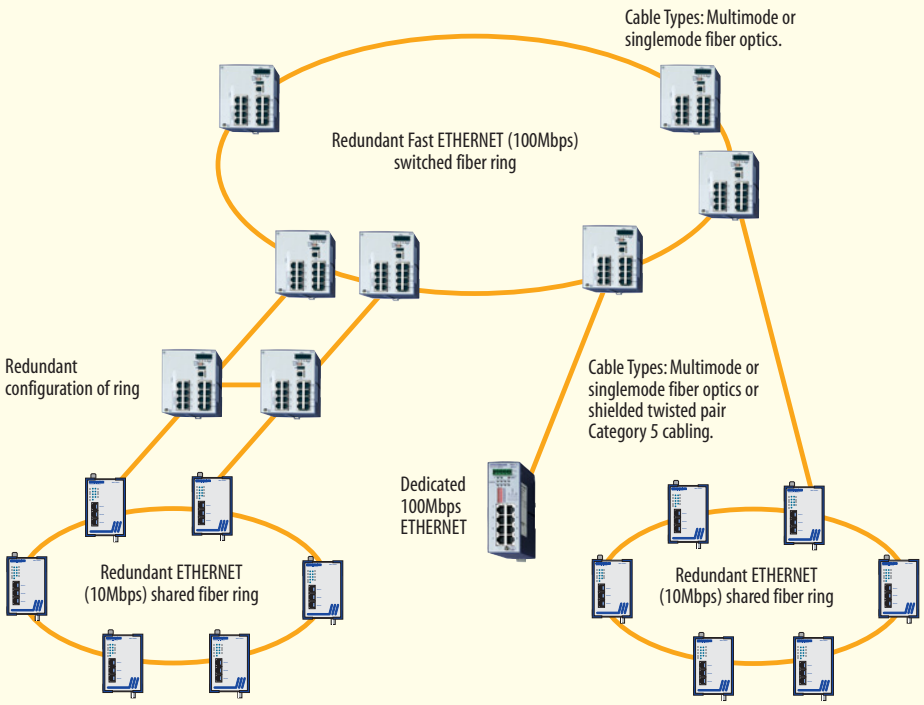
Hirschmann Modular Industrial Communication Equipment (MICE) Ethernet/Fast Ethernet switches offer a unique combination of network management tools, redundancy features for high availability and modular media plug-ins for versatility. The compact switches are DIN Rail mountable, with redundant 24-volt power supplies and are compatible with 10BASE-T, 10BASE-FL, 100BASE-TX and 100BASE-FX. The switches will accommodate twisted pair, single mode or multimode fiber optic connections. MICE switches are made up of an integrated backplane and a modular dock that accepts the various media modules. The switches support SNMP management, web-based management, port mirroring, port security, remote monitoring (RMON), bootstrap protocol (BootP), Dynamic Host Configuration Protocol (DHCP) and Hirschmann's unique HIPER Ring. Hirschmann's HIPER Ring provides high availability through self-healing ring redundancy. The switches' rugged construction meets all standards for industrial Ethernet, making them suitable for applications where EMI interference, shock, vibration and temperature might otherwise cause concern.

MS2108-2	Basic Switch Module with 2 Slots for Media Modules	1395.00
MS3124-4	Basic Switch Module with 4 Slots for Media Modules	2199.00
MS4128-5	Basic Switch Module with 5 Slots for Media Modules	3199.00
MB-2T	2 Slot Expansion Backplane for MS3124-4	169.00
MM2-4TX1	4 10/100Mbps RJ45 Ports	349.00
MM2-4FXM3	4 100Mbps Multimode MT-RJ Ports	1149.00
MM2-2FXM2	2 100Mbps Multimode SC Ports	639.00
MM2-2FXS2	2 100Mbps Singlemode SC Ports	1389.00
MM2-2FLM4	2 10Mbps Multimode ST Ports	799.00
MM2-2FXM3/2TX1	2 10/100Mbps RJ45s plus 2 100Mbps Multimode MT-RJ Ports	755.00

Ethernet Communications on the Plant Floor

The movement to utilize Ethernet connectivity standards on the plant floor is heavily underway. Suppliers of remote I/O devices are quickly changing from traditional RS485 ports to 10 or 100Mbps Ethernet ports. PLCs (Programmable Logic Controllers) are now equipped with Ethernet ports as standard equipment.

Industrial Railmounted Ethernet equipment is fairly new to the networking community. These products are designed and built to a higher standard acceptable to manufacturing environments. The German made Hirschmann line is rapidly setting the pace for Ethernet in the industrial workplace. L-com is proud to be one of the few National Distributors chosen in the United States to support the Hirschmann line.



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Hirschmann Industrial Ethernet Equipment

Item #	Description	List Price

Hirschmann 100Mbps 24 VDC 8 Port DIN Rail Auto-negotiating Switch (8 Shielded RJ45 Ports)

The RS2-TX Rail switch provides a fast, easy and cost-effective solution for configuring small Fast Ethernet networks. Features eight auto-negotiating twisted pair ports with shielded RJ45 connectors. The 24V operating voltage is supplied via a plug-in terminal block which can be configured for redundancy. Integrated LEDs display device and network status for fast on-site troubleshooting. Includes 2-year manufacturer's warranty.

RS2-TX	DIN Rail 10/100Base-TX Switch	439.00

Hirschmann 100Mbps 24 VDC Fiber/Copper Transceiver (Shielded RJ45 and Duplex SC Ports)

These two 100Mbps Fast Ethernet transceivers offer seamless transition from Category 5 shielded twisted pair cabling to fiber optics. Two models available depending on the fiber media needed, multimode to 3000m or singlemode to 20,000m. Runs on 12-48 VDC and mounts to standard DIN Rail. Includes a 2-year manufacturer's warranty.

RT2-TX/FX	DIN Rail 100Base-TX/FX Transceiver, Multimode	499.00
RT2-TX/FX-SM	DIN Rail 100Base-TX/FX Transceiver, Singlemode	1699.00

Hirschmann PROFIBUS, MODBUS and GENIUSBUS Fiber to Copper DIN Rail Media Converters

Hirschmann's PROFIBUS, MODBUS and GENIUSBUS media converters are perfect for transmitting data over several miles/kilometers. They connect terminal devices such as computers, image-processing devices, programmable logic controllers (PLCs) and peripheral devices together. With their high availability and redundancy, they are able to hold their own in the harsh world of industrial applications. Fiber optic cables can be laid directly on high-power equipment or parallel to power cables, reducing planning and commissioning costs. Each converter in this series can be mounted on a DIN rail and is powered by an external 24VDC power supply.

PROFI-TX-FX	PROFIBUS Media Converter DB9F to BFOC Multimode	459.00
PROFI-TX-2FX	PROFIBUS Media Converter DB9F to 2 BFOC Multimode	669.00
PROFI-TX-FX-SM	PROFIBUS Media Converter DB9F to BFOC Singlemode	1499.00
PROFI-TX-2FX-SM	PROFIBUS Media Converter DB9F to 2 BFOC Singlemode	2149.00
MODBUS-TX-2FX	MODBUS Media Converter DB9F to 2 BFOC Multimode	739.00
MODBUS-TX-2FXSM	MODBUS Media Converter DB9F to 2 BFOC Singlemode	1999.00
GENIUS-TX-2FX	GENIUSBUS Media Converter 4-Pin Terminal to 2 BFOC Multimode	899.00
GENIUS-TX-2FXSM	GENIUSBUS Media Converter 4-Pin Terminal to 2 BFOC Singlemode	2159.00

Hirschmann Industrial Compact Ethernet Rail Switches

Hirschmann Industrial Compact Switches provide the industrial customer with a cost effective way to add Ethernet connectivity on the factory floor. These switches auto-negotiate between equipment with 10Mbps or 100Mbps connections. The Hirschmann Industrial line features rugged metal enclosures and DIN Rail mounting. The switches also feature redundant 24VDC inputs and an open relay contact to facilitate connection to PLCs, allowing reaction to malfunction or process control alarms. The FX switches feature the extended range of fiber optic cabling via an integrated multimode fiber optic port. The fiber port can be used to create a fiber optic backbone to a central control room.

RS2-5TX	Hirschmann Industrial Switch 10/100Mbps 5-Port RJ45	379.00
RS2-5TX/FX	Hirschmann Industrial Switch 10/100Mbps 4 RJ45s + 1 Multimode MT-RJ	459.00

Hirschmann Unmanaged SPIDER 5 Port 10/100 Ethernet Rail Switch

The Hirschmann unmanaged Industrial Ethernet Rail Switch is the perfect small form factor solution for your Industrial Ethernet connectivity needs. The switch features store and forward operation, five RJ45 10/100Base-TX Ethernet (10Mbit/s) and Fast-Ethernet (100Mbit/s) Ports, which support auto-crossing, auto-negotiation and auto-polarity. The SPIDER5TX uses a 24VDC Power source and is DIN rail mountable.

SWTC-SPIDER5TX	Hirschmann Unmanaged SPIDER 5 Port 10/100 Ethernet Rail Switch	169.00

Hirschmann 10Mbps 24 VDC 4 Port DIN Rail Hub (4 Shielded RJ45 Ports)

The Rail Hub RH1-TP is the perfect choice and cost-effective expansion of industrial networks. This unit has four twisted pair ports and can be easily fixed on a standard DIN Rail without any further configuration. The 24 VDC operating voltage is supplied through the terminal block and can also be configured for redundancy. Built-in LEDs indicate collisions, link status, power failure and data receipt for on-site diagnostics. Includes a 2-year manufacturer's warranty.

RH1-TP	4 Port DIN Rail Hub (4 10Base-T Ports)	325.00

Hirschmann 24 VDC DIN Rail Power Supply

The RPS30, RPS60 and RPS120 24V DC power supplies are used when access to 24 VDC power at your DIN rail is not present. The RPS30, RPS60 and RPS120 support versatile, selectable input voltage ranging from 100-120/220-240 VAC. Additionally, these power supplies feature easy to reach front mounted connection blocks and high short-circuit current, giving the devices a large 'start-up window' meaning the units start reliably even with awkward loads experienced with DC-DC converters, motors etc. Includes a 1-year manufacturer's warranty.

RPS30	24 VDC DIN Rail Power Supply, 1.3A	129.00
RPS60	24 VDC DIN Rail Power Supply, 2.5A	225.00
RPS120	24 VDC DIN Rail Power Supply, 5A	425.00

Hirschmann Industrial HiVision Network Management Software

The Operator Edition of Hirschmann's HiVision Network Management software enables users to see the status of the network at a single glance. This intelligent program provides a display of the network with its hierarchical structure and topology for the devices of any given manufacturer. HiVision enables secure and easy configuration as well as the monitoring of industrial network components in real time. Features include device state, link and connection state (cable break, utilization), power supply and fan state, ICMP (Ping) and SNMP availability. Protocol support includes HiDiscovery, ICMP(Ping), SNMPv1, SNMPv2c, SNMPv3. Can be used with Windows 2000 / XP Linux (from kernel 2.2, glibc 2.0).

HIVIS OE 50	Industrial HiVision - Operator Edition, 50 Nodes	979.00
HIVIS OE 100	Industrial HiVision - Operator Edition, 100 Nodes	1399.00
HIVIS OE 250	Industrial HiVision - Operator Edition, 250 Nodes	2239.00
HIVIS OE 500	Industrial HiVision - Operator Edition, 500 Nodes	3219.00

CALL 1-800-343-1455 NOW
L-com offers the complete selection of listed manufacturer's products.


RS2-TX


RT2-TX/FX


PROFI-TX-FX


MODBUS-TX-2FXSM


RS2-5TX


RS2-5TX/FX


SWTC-SPIDER5TX


RH1-TP


RPS30


RPS60


RPS120



HIVIS OE

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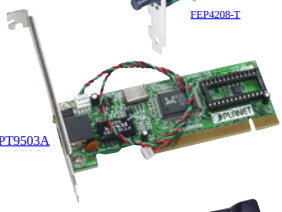
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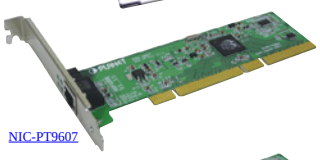
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NIC-PT9503A

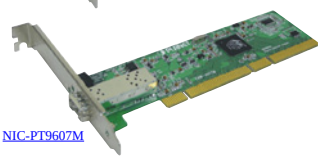


NIC-PT3504-FC





NIC-PT9607



NIC-PT9607M



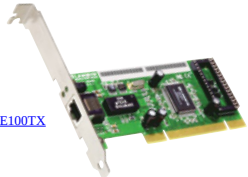
NIC-FA311



NIC-FA511



NIC-3C905CTXM



NIC-LNE100TX

Item #	Description	1-9	10-24	25-99	100-249	250-499

Unicom's 10/100Mbps PCI Network Card with RJ45

Unicom's 10/100Mbps PCI Adapter Card has a 10Base-T/100Base-TX auto-negotiation feature allowing you to use 10Base-T for your current needs and 100Base-TX for your future applications. A full-duplex operation is supported to double the network bandwidth from 10/100Mbps to 20/200Mbps. In addition, the Plug and Play feature makes installation easy.

FEP4206E	Unicom 10/100Mbps PCI Network Card with RJ45	12.00	11.76	11.52	11.28	11.04

Unicom's 100Mbps PCI Fiber Network Cards

Unicom's 100Base-FX PCI Adapter card allows direct connection to a Multimode fiber optic port at distances up to 2,000 meters by using dual ST, SC, MT-RJ or VF45 connectors. With the full-duplex feature, bandwidth is effectively doubled from 100Mbps to 200Mbps. In addition, the Plug and Play feature makes installation easy.

FEP4208-C	Unicom 100Base-FX PCI NIC with Duplex Multimode SC	99.00	97.02	95.04	93.06	91.08
FEP4208-T	Unicom 100Base-FX PCI NIC with Duplex Multimode ST	99.00	97.02	95.04	93.06	91.08
FEP4208-M	Unicom 100Base-FX PCI NIC with Duplex Multimode MT-RJ	139.00	136.22	133.44	130.66	127.88
FEP4208-V	Unicom 100Base-FX PCI NIC with Duplex Multimode VF45	139.00	136.22	133.44	130.66	127.88

Item #	Description	List Price

RoHS Compliant Planet 10/100Base-TX PCI Adapter with Wake On LAN

The NIC-PT9503A 10/100 Ethernet adapter is designed for use with desktop PCs with 32-bit PCI expansion slots. This adapter supports both 10Base-T and 100Base-TX networks right out of the box. The adapters 10/100 RJ45 port automatically detects a network's maximum speed and adjusts itself accordingly. Additionally, the adapter features Wake-On-LAN (WOL) event management.

NIC-PT9503A	Planet 10/100Base-TX PCI Adapter RJ45	12.95

RoHS Compliant Planet 10/100Mbps Cardbus PCMCIA Ethernet Adapter

The NIC-PT3504-FC can be used in any laptop computers 32 Bit PCMCIA slot. This adapter features a single RJ45 port for connecting to Ethernet network devices. Additionally, this adapter complies with PCMCIA Release 2 Type II and JEIDA v4.x standards. Support for auto negotiation as well as half and full duplex operation is included. The NIC-PT3504-FC is the perfect plug and play solution for your PCMCIA adapter needs.

NIC-PT3504-FC	Planet 10/100 CardBus PCMCIA Ethernet Adapter	19.95

RoHS Compliant Planet 10/100/1000Mbps 64-bit PCI 2.2 Gigabit Ethernet Adapters

The NIC-PT9607 is a 64-bit 10/100/1000Base-T PCI 2.2 Gigabit Ethernet adapter designed to address high-performance system application requirements. This adapter comes with one fixed RJ45 port. The NIC-PT9607M provides a single mini-GBIC interface. Either a 1000Base-SX or 1000Base-LX mini-GBIC module (sold separately) can be placed into the NIC-PT9607M depending on the application. Please refer to mini-GBIC part numbers MOD-MGBIC-SX and MOD-MGBIC-LX. The NIC-PT9607/PT9607M support both 32-bit and 64-bit interfaces, as well as multiple operating systems. Compatible with Windows 98/NT/ME/2000/XP.

NIC-PT9607	Planet 64-bit PCI 2.2 Gigabit Ethernet Adapter	56.00
NIC-PT9607M	Planet 64-bit PCI 2.2 Gigabit Ethernet Adapter, Mini-GBIC	75.00

RoHS Compliant NETGEAR's FA311 10/100Mbps Ethernet PCI Network Interface Card

The NETGEAR Ethernet Network Card connects users to other networked computers, printers, zip drives, routers, network storage and the Internet. Plug it in and achieve high-speed 10/100Mbps transfer rates for data. NETGEAR's single chip design improves the reliability and performance of the network card. Be prepared for the future with both 3.3v PCI and low-profile PCI capability - no upgrades required. All major operating systems are supported: Microsoft Windows, Microsoft NT, Novell NetWare, RedHat Linux and SCO OpenServer Unix. Limited lifetime manufacturer's warranty.

NIC-FA311	NETGEAR 10/100Mbps PCI NIC	18.99

NETGEAR's FA511 10/100Mbps Cardbus 32-Bit NIC

The NETGEAR 10/100Mbps CardBus Mobile Ethernet Adapter provides laptops with 32-bit, Plug-and-Play, bus-mastering network connectivity. The FA511 auto-detects network speed without manual port reconfiguration Since the CardBus operates at a modest 3.3V, it conserves the laptop's power consumption and extends battery life. The FA511 also supports full-duplex capabilities for a maximum throughput of 200Mbps.

NIC-FA511	NETGEAR 10/100Mbps Cardbus 32-Bit Card	39.00

3Com® 10/100Mbps PCI Network Interface Cards

The 3Com 10/100Mbps managed Network Interface Cards (NIC's) cost-effectively migrate enterprise networks to Fast Ethernet. High-performance features including advanced bus technology, TCP/IP offloads and traffic control accelerate network throughput and reduce host CPU utilization. The intelligent NIC-3C905CTXM card comes with centrally controlled, remote desktop management features and the interactive 3Com Connection Assistant simplifying management and troubleshooting with automated Web support.

NIC-3C905CTXM	3Com 10/100Mbps Managed NIC	45.00
NIC-3C905CTXM-25PK	3Com 10/100Mbps Managed NIC, Pkg/25	789.00

Linksys EtherFast® 10/100Mbps LAN PCI Card

The Linksys EtherFast 10/100Mbps LAN Card is a high performance network adapter for desktop computers with 32-bit PCI expansion slots. The card's 10/100Mbps combo RJ45 port automatically detects a network's maximum speed and adjusts itself accordingly. This PC card also features Wake-On-LAN (WOL) event management. If the installed PCI motherboard has built-in WOL support, you'll be able to remotely turn on that computer.

NIC-LNE100TX	Linksys EtherFast 10/100Mbps LAN PCI Card	21.00

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Waterproof Enclosures and Grommeted Cables

Item #	Description	List Price

Weatherproof Communications Equipment Enclosure

Remote wireless equipment such as access points, routers and bridges often are more vulnerable to tampering and theft. This can disrupt and even cripple critical communications. A low cost solution for protecting and securing your wireless equipment is the WENC-1400. This rugged, weatherproof NEMA 3R composite enclosure is ideal for both indoor and outdoor applications. The compact size of this enclosure (14" x 10" x 4") makes it ideal for locations with limited space requirements such as equipment closets or mobile applications. The 10.5" x 9.5" x 4" (266 x 241 x 101 mm) compartment features a removable power module with two 110VAC outlets. This power module has provisions to install two additional outlets. Cable access to the inside of the enclosure is via three rubber cable glands located on the bottom. Other Options include heated and/or cooled units, 110VAC, 220VAC, 12VDC and Power-Over-Ethernet models. Contact us today for details!

WENC-1400	Weatherproof Wireless Equipment Enclosure	79.95

Category 5E Outdoor Cables with Weather Tight Grommet

Protect Ethernet cable runs outside with L-com's Outdoor Category 5E rated cable. The Gel-filled jacket provides moisture protection when used in an outdoor environment. The built in feed-thru grommet allows you to pass this cable through an enclosure while maintaining a watertight seal. With the UV protected jacket, outdoor cable runs are protected from damage caused by sunlight exposure. The cable is EIA568B color-coded for compatibility with standard installations and features solid conductors for termination into standard IDC connectors. Custom lengths are available; contact us today with your project requirements.

TRD855WTG-5	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 5.0 ft	41.75
TRD855WTG-10	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 10.0 ft	44.75
TRD855WTG-25	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 25.0 ft	53.75
TRD855WTG-50	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 50.0 ft	68.75
TRD855WTG-100	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 100.0 ft	98.75

LC to LC Duplex Multimode Fiber Optic Cables with Grommets, 62.5/125 with OFNR Jacket

L-com's 62.5/125 Duplex Multimode fiber optic cables are constructed of the highest quality components and are covered by a one-year warranty. These outdoor IP67 rated fiber optic patch cables feature liquid tight grommets, which can be used to connect the cables to enclosures, which house communications equipment. The grommets are sized for ¾" knockouts and feature locking nuts. By utilizing L-com's fiber optic patch cables, critical network uptime is assured. Custom lengths, connector combinations and polishes are available. Contact us today for details.

FODLCG-01	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 1.0m	32.50
FODLCG-02	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 2.0m	35.50
FODLCG-03	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 3.0m	38.50
FODLCG-05	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 5.0m	44.50
FODLCG-10	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 10.0m	59.50

Item #	Description	1-9	10-24	25-99	100-249	250-499

RoHS Compliant Liquid Tight Straight Cable Grommets

These rugged IP 67 rated cable grommets are perfect for use with enclosures and panels where the cables entry point must be sealed from moisture and dust. Each grommet includes a dome nut and main body housing. A locking nut is sold separately and can be used to secure the grommet to a 3/4" knockout. This grommet is sized for cable OD's ranging from .11 to .27 inches. Contact us today for more sizes and fitting options.

CG-PG11	Cable Grommet 3/4" Knockout	2.75	2.70	2.64	2.59	2.53
LN-PG11	Locking Nut for 3/4" Grommet	0.59	0.58	0.57	0.55	0.54

NEMA/IEC

NEMA, (National Electrical Manufacturers Association) and the IEC (International Electrotechnical Commission) are two standards groups, which have devised two rating systems for enclosures, which define the enclosures resistance to dust, moisture, water immersion and ice. The IEC's rating is referred to as the IP or Ingress Protection rating. The table below outlines NEMA and IEC IP Enclosure ratings

NEMA enclosure type no.	NEMA definition	IEC enclosure class
1	General-purpose. Protects against dust, light and indirect splashing but is not dust-tight; primarily prevents contact with live parts; used indoors and under normal atmospheric conditions.	IP10
2	Drip-tight. Similar to Type 1 but with addition of drip shields; used where condensation may be severe (as in cooling rooms and laundries).	IP11
3 and 3S	Weather-resistant. Protects against weather hazards such as rain and sleet; used outdoors on ship docks, in construction work and in tunnels and subways.	IP54
3R	Intended for outdoor use. Provides a degree of protection against falling rain and ice formation. Meets rod entry, rain, external icing and rust-resistance design tests.	IP14
4 and 4X	Watertight (weatherproof). Must exclude at least 65 GPM of water from 1-in. nozzle delivered from a distance not less than 10 ft for 5 min. Used outdoors on ship docks, in dairies and in breweries.	IP56
5	Dust-tight. Provided with gaskets or equivalent to exclude dust; used in steel mills and cement plants.	IP52
6 and 6P	Submersible. Design depends on specified conditions of pressure and time; submersible in water; used in quarries, mines and manholes.	IP67
7	Hazardous. For indoor use in Class I, Groups A, B, C and D environments as defined in the NEC.	—
8	Hazardous. For indoor and outdoor use in locations classified as Class I, Groups A, B, C and D as defined in the NEC.	—
9	Hazardous. For indoor and outdoor use in locations classified as Class II, Groups E, F or G as defined in the NEC.	—
10	MSHA. Meets the requirements of the Mine Safety and Health Administration, 30 CFR Part 18 (1978).	—
11	General-purpose. Protects against the corrosive effects of liquids and gases. Meets drip and corrosion-resistance tests.	—
12 and 12K	General-purpose. Intended for indoor use, provides some protection against dust, falling dirt and dripping noncorrosive liquids. Meets drip, dust and rust resistance tests.	IP52
13	General-purpose. Primarily used to provide protection against dust, spraying of water, oil and noncorrosive coolants. Meets oil exclusion and rust resistance design tests.	IP54


WENC-1400


WENC-1400 (detail)


TRD855WTG

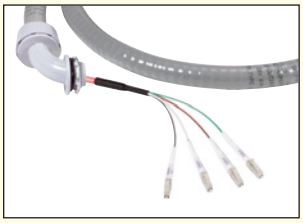

FODLCG


CG-PG11


LN-PG11

L-com's custom cable manufacturing capabilities include solutions for conduit assemblies where cables require protection from hazardous environments. We offer many different conduit and fitting sizes as well as both metal and plastic conduit and fitting options. Contact us today with your conduit assembly requirements.





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Wireless Networking Terms

802.11a: An IEEE standard for wireless Ethernet networking that operates in the 5 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 54Mbps and approximate wireless range is 25-75 feet indoors.

802.11b: An IEEE standard for wireless Ethernet networking that operates in the 2.4 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 11Mbps and approximate wireless range is 100-200 feet indoors.

802/11g: An IEEE standard for wireless Ethernet networking that operates in the 2.4 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 54Mbps and approximate wireless range is 100-200 feet indoors.

Access Point: A wireless Access Point is used to connect PC's with wireless adapter cards to a wired Ethernet network. Access points can support several or all of the three most popular IEEE WLAN standards including 802.11a, 802.11b and 802.11g. Sometimes people may refer to an Access Point as a Wireless Hub.

Adapter: A wireless adapter or NIC (Network Interface Card) that is used to connect to a laptop or PC to a wireless LAN (Local Area Network).

Ad-hoc: An Ad-hoc wireless network is made up of a group of PC's and/or laptops connected as an independent wireless LAN.

Encryption: Encryption is used to hide or mask the data being sent through wireless transmissions. There are several popular and widely used encryption methods used today including WEP (Wired Equivalent Privacy, and WPA (Wi-Fi Protected Access).

Hot Spot: A wireless Hot Spot is a public area where wireless laptops can connect to WLAN and receive Internet access. Recently many coffee shops and airports have added this capability for their customer's convenience.

Infrastructure: A Wireless Infrastructure is comprised of both wired and wireless LAN's. Typically this type of configuration is found in SOHS and Enterprise environments where there are many user groups or divisions requiring access to shared resources.

ISM Band: The ISM (Industrial, Scientific and Medical) band, which is controlled by the FCC in the US, generally requires licensing for various spectrum use. To accommodate wireless LAN's, the FCC has set aside bandwidth for unlicensed use including the 2.4Ghz spectrum where many WLAN products operate.

Roaming: The ability to use a wireless device and be able to move from one access point's range to another without losing the connection.

Router: A wireless router is a protocol dependent device that is used to connect sub networks or different independent WLAN's together. Routers provide security as they can be configured to only allow certain users access to different services such as the Internet and file servers when connecting a WLAN to the Internet a router is required.

SOHO (Small Office/Home Office): Is a widely used acronym, which defines applications or products that are used in homes or in small offices.

SSID: The SSID is the unique name shared among all devices on the same wireless network

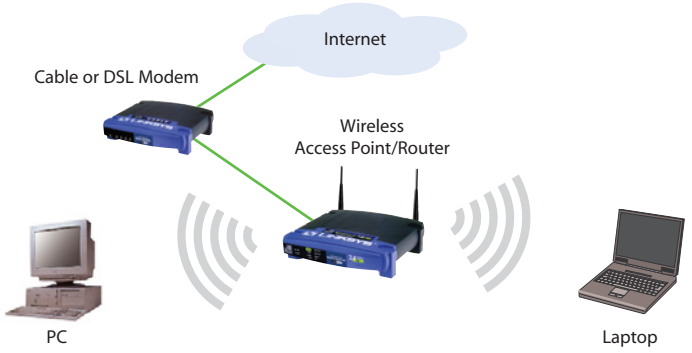
WIFI: Wi Fi stands for Wireless Fidelity and is used to define any of the IEEE 802.11 wireless standards. The term Wi-Fi was created by the Wireless Ethernet Compatibility Alliance (WECA). Products certified as Wi-Fi compliant are interoperable with each other even if they are made by different manufacturers.

What is a Wireless Network?

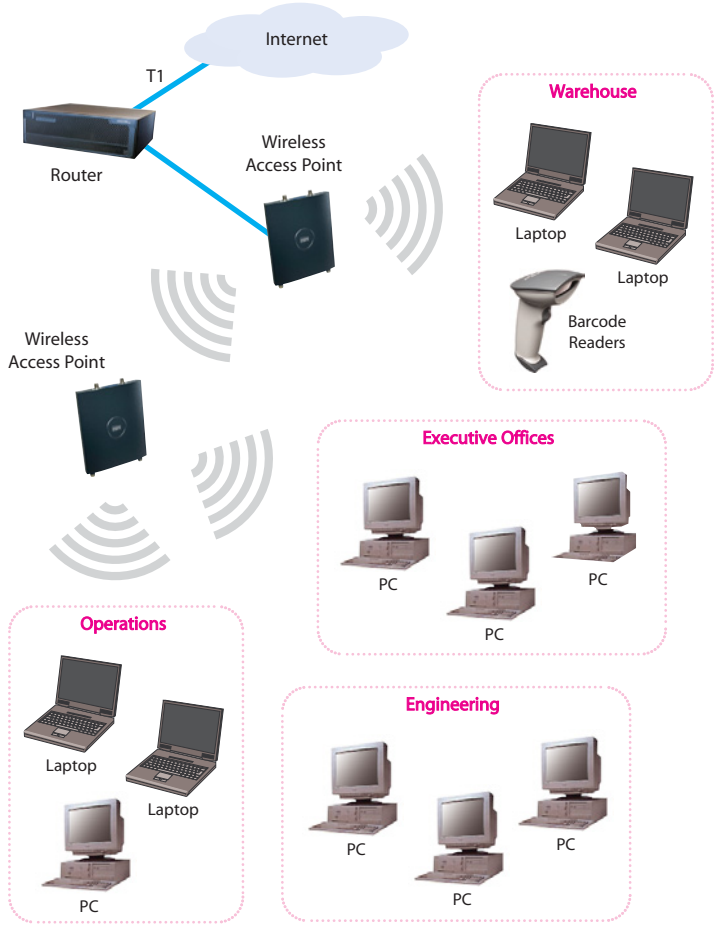
A wireless network is very similar to the wired network in that all the same pieces are still required, a wireless NIC, Access Point (similar to a wired network Ethernet Switch) and a wireless router. The only thing that's missing is the cables.

First you will need to determine if your desktop or Laptop PC already has a wireless NIC built in. Again, check your users guide to confirm this. Once your wireless NIC is installed you will need to configure the SSID (service set identifier) on each of the PC's to use the same name. Also, you need to make sure all the wireless NICs are configured to be on the same channel and set levels of encryption if desired. Your wireless access point or router should come with detailed explanation of how to configure the SSID and security features such as encryption and access lists. Many of today's wireless routers come with the access point functionality built right in.

The diagram below shows a simple wireless network set up.



The diagram below shows a typical business wireless LAN.



	802.11a	802.11b	802.11g
Speed	Up to 54 Mbps	Up to 11 Mbps	Up to 54 Mbps
Frequency	5 Ghz	2.4 Ghz	2.4 Ghz
Indoor Range	25-75 feet	100-200 feet	100-200 feet
Compatibility	Incompatible with 801.11b and 802.11g	Compatible with 802.11g	Compatible with 802.11b

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Item #	Description	List Price

Planet 802.11g Wireless Broadband Router

The WLAN-WRT410 is a broadband router integrated with an 802.11g Access Point. The IEEE 802.11g standard uses the 2.4GHz frequency band, the same as IEEE 802.11b; but it provides almost five times the throughput rate of 802.11b. With the latest integrated Super G technology, maximum data rates of 108Mbps are realized. The WLAN-WRT410 is also backward compatible and interoperable with IEEE 802.11b compliant wireless devices. This router supports 64/128bit WEP encryption as well as WPA (Wi-Fi Protected Access) and 802.1x authentication. The router features a built-in 4-port 10/100 Ethernet switch as well as virtual server, DMZ and natural firewall functions.

WLAN-WRT410	Planet 802.11g Wireless Broadband Router	95.00

Planet 54Mbps 802.11g Wireless LAN Access Point

The WLAN-WAP4030 is a cost effective IEEE 802.11g wireless access point. IEEE 802.11g technology uses the 2.4GHz frequency band, the same as IEEE 802.11b, but provides almost five times the data throughput rate. You can use this access point to establish a wireless LAN connection that enables multiple PCs to access the wireless LAN easily. The WLAN-WAP4030 supports WPA-PSK, 64/128-bit WEP (Wired Equivalent Privacy) Encryption and MAC address filtering capabilities providing comprehensive wireless network security preventing unauthorized wireless stations from accessing your wireless network. This product provides a user-friendly interface allowing configuration from a web browser.

WLAN-WAP4030	Planet 54Mbps 802.11g Wireless LAN Access Point	69.00

Planet 802.11g Wireless LAN Travel Kit

The WLAN-WAP4050 802.11g wireless LAN travel kit is not only a wireless access point but also a wireless NAT router as well as an Ethernet adapter. The unit is about the same size as a deck of playing cards and weighs less than a quarter pound. The WLAN-WAP4050 provides the greatest level of flexibility for a mobile user. The WLAN-WAP4050 is a driver free, plug and play device which facilitates setting up a wireless connection in minutes. The WLAN-WAP4050 also comes with a travel bag, power adapter and network cable. Covered by a manufacturer's 2 year limited warranty.

WLAN-WAP4050	Planet 802.11g Wireless LAN Travel Kit	79.00

Linksys Wireless-G 54Mbps Broadband Router

The Linksys Wireless-G Broadband Router is three devices in one box. First, there's the Wireless Access Point, which lets you connect Wireless-G or Wireless-B devices to the network. There's also a built-in 4-port full-duplex 10/100 Switch to connect your wired-Ethernet devices. Connect four PCs directly, or daisy-chain to more hubs and switches to create as big a network as you need. Finally, the Router function ties it all together and lets your whole network share a high-speed cable or DSL Internet connection.

WLAN-WRT54G	Linksys 54Mbps Wireless Broadband Router	70.00

Planet 802.11g Wireless LAN USB Adapter

The WLAN-WLU356 provides simple, reliable, high-speed wireless connections for both desktop and laptop users. By combining two, state-of-the-art technologies-USB 2.0 and 802.11g-the WLAN-WLU356 delivers data at speeds up to 54Mbps, five times the speed of existing 802.11b devices. Simply plug this wireless USB LAN adapter into your computer's USB port and gain access to any 802.11b/g wireless network. Support of 64, 128 and 256-bit WEP encryption plus WPA high-level encryption keeps your wireless communications safe from unauthorized access and ensures secure data transfers. Supports Windows 98SE/ME/2000/XP/Server 2003.

WLAN-WLU356	Planet 802.11g Wireless LAN USB Adapter	24.99

Planet Wireless G 54Mbps PC Cardbus Adapter

The Planet IEEE 802.11g wireless adapter can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without an Access Point) or in Infrastructure mode (Point to Point/Point to Multipoint with an Access Point). With almost five times the data rate of traditional 802.11b products, these adapters are suitable for high bandwidth multimedia applications. The WLAN-NIC3560 operates in the 2.4GHz unlicensed ISM band and is compliant with both the 802.11b and 802.11g standards. This dual-standard support allows for greater flexibility of deployment and use. Support for both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA) for securing wireless network connections is included. Windows 98SE/ME/2000/XP/Server 2003 are supported.

WLAN-NIC3560	Planet Wireless G 54Mbps PCMCIA Adapter	35.00

Planet Wireless G 54Mbps PCI Adapter

The WLAN-NIC8310 is an IEEE 802.11g wireless PCI card that supports data rates up to 54Mbps. This PCI adapter can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without an Access Point) or Infrastructure mode (Point to Point/Point to Multipoint with an Access Point). The WLAN-NIC8310 features a detachable dipole antenna that can be replaced with optional external antenna to obtain better signal quality and greater connection distances. Security features include support for both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA). Windows 98SE/ME/2000/XP/Server 2003 are supported.

WLAN-NIC8310	Planet Wireless G 54Mbps PCI Adapter	39.00

Planet 802.3af Power Over Ethernet Injector and Splitter

The POE-PT150 and POE-PT150S are IEEE 802.3af Power over Ethernet devices that provide DC power over regular Category 5 Ethernet cables. The POE-PT150 injector inserts DC Voltage into the CAT 5 cable allowing the cable between the Injector and Splitter (POE-PT150S) to transfer data and power simultaneously. The maximum distance between the Injector and Splitter is up to 100 meters. There are three POE-PT150S Splitter options including 5V 2A, 9V 1.3A and 12V 1A DC power support. These POE splitters can be used in conjunction with an 802.3af compliant switch or hub, which injects the DC power or they can be used with the POE-PT150 Injector.

POE-PT150	Planet 802.3af Power over Ethernet Injector	42.00
POE-PT150S-5V	Planet 802.3af Power over Ethernet Splitter 5V 2A	29.95
POE-PT150S-9V	Planet 802.3af Power over Ethernet Splitter 9V 1.3A	29.95
POE-PT150S-12V	Planet 802.3af Power over Ethernet Splitter 12V 1A	29.95

Planet 12 and 24 Port 802.3af Power Over Ethernet Injector Hubs

The Planet POE-PT1200 and POE-PT2400 are 12-port and 24-port IEEE802.3af Power over Ethernet injector hubs that comply with IEEE802.3, IEEE802.3u and IEEE802.3af standards. Equipped with 12 or 24 10/100BASE-TX Fast Ethernet ports, the products support full 48VDC power for any remote IEEE802.3af powered device such as Wireless LAN Access Point's, IP phone's, and LAN Cameras. These hubs feature Web and Console management interfaces to allow administrators easy management access. The hubs can auto detect the power status on each port and show messages on both the Web and Console management interface. Includes a 2-year manufacturer's warranty.

POE-PT1200	Planet 12 Port 802.3af Power over Ethernet Injector Hub	289.00
POE-PT2400	Planet 24 Port 802.3af Power over Ethernet Injector Hub	449.00

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WLAN-WRT410


WLAN-WAP4030


WLAN-WAP4050


WLAN-WRT54G


WLAN-WLU356


WLAN-NIC3560


WLAN-NIC8310


POE-PT150


POE-PT150S-5V


POE-PT1200


POE-PT2400

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RTR-PT401D


RTR-PT311S


RTR-PT402D


RTR-SOHO91


RTR-SOHO97


RTR-BEFSR41


RTR-BEFSR81


RTR-FR114P


RTR-RP614

Item #	Description	List Price

Planet Cable / DSL Router with 4 Port Switch

The RTR-PT401D offers high levels of security, functionality and flexibility all at a very competitive price. The RTR-PT401D features four integrated 10/100Mbps Ethernet RJ45 interfaces providing support for PC's, printers and other networked peripherals. A single WAN interface supports connection to a Cable or DSL modem. By utilizing sophisticated connection agents including (PPPoE/DHCP/fixed IP/PPTP) the RTR-PT401D is optimized for different ISP environments around the world.

RTR-PT401D	Planet Cable/DSL Router with 4 10/100Mbps Ports	49.00

Planet VPN Router with 3 Port 10/100 Fast Ethernet Switch

The Planet RTR-PT311S is a cost-effective, highly integrated VPN solution combining high-speed, industry-leading routing technology with a comprehensive suite of advanced, VPN Pass-through, client-to-VPN gateway, LAN-to-LAN VPN solutions. With the built-in connection wizard (DHCP, Fixed IP, PPPoE, PPTP, SingTel RAS, Telstra Big Pond) VPN support (IPSec standards, including IKE and certificates) and Microsoft VPN support, the RTR-PT311S supports most connection types and meets demanding security requirements. For overall network security, the VRT-311S integrates user access control and policy based controls plus SPI firewall protection, offering high efficiency and extensive protection for your network. Additional features include a 3-port auto-sensing, auto-MDI/MDI-X 10/100Mbps switch and a standard 10/100Base-TX WAN port providing Internet access for both Servers and LAN side workstations.

RTR-PT311S	Planet VPN Router with 3 Port 10/100Mbps Fast Ethernet Switch	89.00

Planet Dual WAN Port Router with 4 Port Fast Ethernet Switch

The RTR-PT402D is a Dual WAN port load balancing broadband router with a built-in 4 port 10/100 Ethernet Switch. This advanced yet economical router is the perfect solution for connecting to multiple ISP's ensuring uptime for critical applications. The RTR-PT402D features the latest security controls including SPI Firewall, URL blocking, IP/MAC filtering and access control based on application or port. Additionally, set up is easy using the built-in connection wizard. Up to four network devices such as PCs can be connected to the RTR-PT402D allowing users to share the two Internet connections and other LAN resources. Ships with Installation CD and User manual.

RTR-PT402D	Planet Dual WAN Router with 4 Port 10/100Mbps Fast Ethernet Switch	79.00

Cisco SOHO 90 Series Broadband Routers

The Cisco SOHO 90 Series Ethernet WAN routers allow users in a small office to share a secure broadband connection with an integrated stateful-inspection firewall. Corporate teleworkers can also take advantage of Cisco SOHO 90 Series routers for VPN connections to the corporate network. These routers support 3DES encrypted connections using Cisco IOS Software or users can initiate VPN tunnels from PC-based VPN clients on the LAN. The Cisco SOHO 91 router has an Ethernet WAN port for use with an external DSL or cable modem. The SOHO 97 router features a built in asymmetric digital subscriber line (ADSL) modem as well as a 4 port 10/100 Ethernet switch.

RTR-SOHO91	Cisco Broadband Router	299.00
RTR-SOHO97	Cisco Broadband Router with Built-in Modem	389.00

Linksys Etherfast® Cable / DSL Router with 4 Port Switch

The Linksys EtherFast® Cable/DSL Router with 4-Port Switch is the perfect option to connect up to 253 users to a high-speed Broadband Internet connection or to an Ethernet backbone. The built-in NAT technology acts as a firewall protecting the internal network from hackers. The router can also be configured to block internal users' access to the Internet. This cutting-edge combination of router and switch technology eliminates the need to buy an additional hub or switch.

RTR-BEFSR41	Linksys Cable / DSL Router with 4 Port Switch	59.99

Linksys EtherFast® Cable / DSL Router with 8 Port Switch

The Linksys EtherFast® Cable/DSL Router with 8-Port Switch is the perfect solution to connect up to 253 users to a high-speed Broadband Internet connection or to an Ethernet backbone. Built-in NAT technology acts as a firewall protecting the internal network from hackers. Configurable as a DHCP server for an existing network, the EtherFast® Cable/DSL Router with 8-Port Switch acts as the only externally recognized Internet device on the local area network (LAN). This cutting-edge combination of router and switch technology eliminates the need to buy an additional hub or switch and serves as a completely dedicated, full duplex backbone.

RTR-BEFSR81	Linksys Etherfast Cable / DSL Router with 8 Port Switch	99.00

NETGEAR ProSafe™ Cable / DSL Router with 4 Port Switch and Print Server

The NETGEAR ProSafe Cable/DSL Router with 4-port Switch gives users complete control over network contact with the Internet. The RTR-FR114P features Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content filtering, logging, reporting and real-time alerts. VPN pass-through maximizes network security with access control and encryption. The Smart Wizard and Install Assistant get the network up and running in minutes and a complete anti-virus software bundle is included at no extra cost to shield your network with additional protection. A built-in print server supports multiple print jobs simultaneously. Includes a 3-year manufacturer's warranty.

RTR-FR114P	NETGEAR's ProSafe Cable / DSL Router with 4 Port Switch and Print Server	99.00

NETGEAR Cable / DSL Router with 4 Port 10/100Mbps Switch

NETGEAR's RTR-RP614 Router lets you securely extend your broadband Internet connection to all of your computers. Each person on your network can instantly enjoy high-speed web access. The RTR-RP614 provides True Firewall protection: Stateful Packet Inspection (SPI), which eliminates potential threats to your network and Network Address Translation (NAT), which conceals your networked devices from hackers. Filtering allows parents to limit URL access and monitor Internet activities. Setup couldn't be easier using the included Smart Wizard utility. The RTR-RP614 is compatible with all modems and virtually all Internet service providers. Includes a 3-year manufacturer's limited warranty.

RTR-RP614	NETGEAR's Cable / DSL Router with 4 Port 10/100Mbps Switch	59.00

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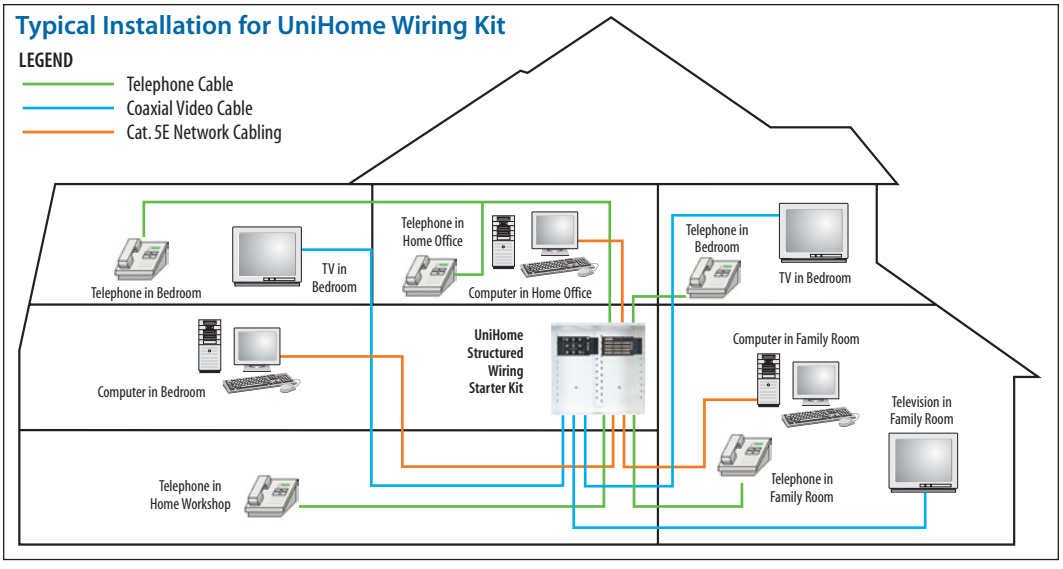
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UniHome Plus Networking Enclosures and Modules

Unicom's new networking enclosure boxes are the most comprehensively engineered home boxes in the industry. The UniHome Plus Series Boxes provide ample space for the most demanding home networking configurations. The UniHome Plus Series offers superb flexibility with specially designed modules for data, voice, video, Internet access, multi-player gaming, networking equipment, cable management, security and more. UniHome Series Boxes are perfect for surface and in-wall installations and will satisfy today's lifestyles and emerging technology needs. Order online today!

Item #	Description	List Price
UHBC100-14	UniHome Plus14 Networking Enclosure Box	32.95
UHBD110-14	UniHome Plus14 Hinged Locking Door	42.95
UHBL100-14	UniHome Plus14 Enclosure Lid	24.95
UHBC100-20	UniHome Plus20 Networking Enclosure Box	49.00
UHBD110-20	UniHome Plus20 Hinged Locking Door	49.00
UHBL100-20	UniHome Plus20 Enclosure Lid	32.95
UHBC100-30	UniHome Plus30 Networking Enclosure Box	59.95
UHBD110-30	UniHome Plus30 Hinged Locking Door	69.95
UHBL100-30	UniHome Plus30 Enclosure Lid	42.00
UHBC100-40	UniHome Plus40 Networking Enclosure Box	75.00
UHBD110-40	UniHome Plus40 Hinged Locking Door	83.95
UHBL100-40	UniHome Plus40 Enclosure Lid	52.00
UHB1-M1BV-2	UniHome 2dB Video Signal Booster	89.00
UHB1-M2FB-1	UniHome 2 Port Video Combiner (Passive)	29.00
UHB1-M63A-1	UniHome 6 Port Category 3 Telephone Module (Bridged)	69.00
UHB1-M6EA-1	UniHome 6 Port Category 5E RJ45 Telephone Module	49.00
UHB1-M6EB-1	UniHome 6 Port Category 5E RJ45 Data Module	49.00
UHB1-M8AT-1	UniHome 7 Zone Audio Module	59.00
UHB1-M8FO-1	UniHome 8+1 Port Outbound Video Module (Passive)	49.00
UHB1-MV1081-1	UniHome 1x8 Bi-Direction Video Module (Passive)	29.99
UHB1-MBK1-1	UniHome Blank Mounting Modules with Saddle Clips (1 Unit, Half size, 3" H x 6-5/16" W)	19.00
UHB1-MBK1-2	UniHome Blank Mounting Modules with Saddle Clips (2 Unit, Half size, 6" H x 6-5/16" W)	24.00
UHB1-MBK2-2	UniHome Blank Mounting Modules with Saddle Clips (2 Unit, Full size, 6" H x 13-3/16" W)	29.00
UHB1-M4FS-1	UniHome Mod Satellite 2 GHz IO	25.00
UHB1-S1PT	UniHome Surge Protector for Telephone Line	29.00

Typical Installation for UniHome Wiring Kit



Planet Wired and Wireless Internet IP Cameras with Audio

The ICA-PT102 family provides an advanced Internet camera solution, supporting wired or wireless Ethernet networking. The ICA-PT102/ICA-PT102W can be placed in a wired/wireless LAN or an available xDSL/Cable modem connection. With Plug-N-Watch capability, set up is fast and easy! The ICA-102 family uses advanced MPEG-4 video compression technology. By using MPEG-4 technology, you can view a high quality video with a simple web browser or media player. Advanced features include Motion Detection and audio recording. If a motion is detected in a surveillance spot, this function will capture 10 images and attach them in an email, then send them to a specified account. Furthermore, by connecting an external microphone to the camera, audio can be recorded along with the live image. With the bundled utility, you can record video by manual control or arrange automatic scheduled recording.

ICA-PT102	Planet Internet Camera with Audio	169.00
ICA-PT102W	Planet Wireless Internet Camera with Audio	229.00

RoHS Compliant Planet Pan and Tilt IP Surveillance Camera

The Planet ICA-500-NT provides an advanced digital Internet IP Camera solution with pan and tilt capability providing support for various surveillance applications. The camera supports wired Ethernet networking and can be placed either in a LAN or on an available DSL/Cable modem connection. The camera also supports DDNS and Plug-N-Watch capability that allows a network administrator to easily configure the camera in minutes. Combining a 1/3 inch color CCD sensor with advanced motion JPEG video compression technology, sharp, high-quality video is digitized and delivered by an advanced microcomputer. If motion is detected, the motion detection feature will capture images, attach them to an e-mail, and alert the system administrator. The optional ICA-PT5DH outdoor protective housing features a flame resistant upper casing and a weatherproof acrylic lower casing. This unique design provides complete protection from various harsh/outdoor environments. Auto zoom and focus are not supported. Order online today!

ICA-500-NT	Planet Pan and Tilt IP Surveillance Camera	299.00

RoHS Compliant Planet ICA-500-NT Outdoor Protective Dome Cover

The ICA-PT5DH outdoor protective housing features a flame resistant upper casing and a weatherproof acrylic lower casing. This unique design provides complete protection from various harsh/outdoor environments. This dome can be used with the ICA-500-NT Pan and Tilt IP camera. Order online today!

ICA-500-NT	Planet Outdoor Protective Dome Cover for ICA-500-NT	199.00

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UHB1-M6EA-1
UHB1-M6EB-1


UHB1-M8AT-1


UHB1-M8FO-1


UHB1-MV1081-1


UHB1-MBK1-1


UHB1-MBK1-2


UHB1-MBK2-2


UHB1-M4FS-1


UHB1-S1PT


ICA-PT102

ICA-PT102W


ICA-500-NT


ICA-PT5DH

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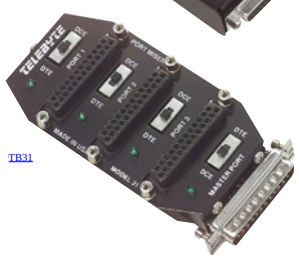
TB268



TB281



TB282



TB31



TB8381


TB8381
Rear View



UMATS



I-7021P I-7060

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Item #	Description	List Price

RoHS Compliant Telebyte Opto-Isolation Modules - Limit Ground Currents in Copper Cabling

Opto-Isolation Modules solve the problems of ground currents by maintaining an optical connection between electrical data communication equipment. These units have DB25M and DB25F connections and come in RS232 and RS422 versions depending on the serial interface utilized. Both devices are powered directly by the serial connection so no external power is required. Products carry 1-year manufacturer's warranty and have CE approval. Made in U.S.A.

TB268	RS232 Opto-Isolation Module, DB25, Male / Female	106.00
TB281	RS422 Opto-Isolation Module, DB25, Male / Female	158.00

RoHS Compliant Telebyte Opto-Isolation Module PLUS Line Driver - Protection and Extends Distances

The TB282 is an Opto-Isolation Module PLUS an RS232 line driver AND a Surge Protection Device. Utilizes DB25M and DB25F connectors for RS232 interface. Maximum distances of 1000 feet can be maintained at 10.2 Kbps transfer rate, 64 Kbps achievable at shorter distances. Externally powered, includes a 1-year manufacturer's warranty. Made in U.S.A.

TB282	RS232 Opto-Isolation / Line Driver, DB25, Male / Female	195.00

TIP: *What are ground loops?*

Ground currents or loops are caused when two or more electrical devices are tied together via copper cabling and the equipment has different ground potentials. This combination can cause difficulty in data transmission, can damage equipment and in extreme cases cause bodily harm in medical applications.

The simplest way to protect ground currents is to tie all the equipment in question to a common ground (preferably earth ground). In many applications this is not physically possible due to the distance between equipment. The next simplest way to solve this problem is by installing an optical link in between the copper cabling connecting the equipment. This can be done with an Opto-Isolation Module which converts the electrical data signals to light then back to electrical signals. The last way to solve the problem is to not use copper cabling at all, but to use fiber optic connections between equipment. The biggest advantage here is that the ground current problem is solved and operating distance can be greatly increased.

Telebyte RS232 Port Sharing Device - 1 DB25M to 3 DB25F

The TB31 Port Splitter is a passive device which attaches to a modem, printer or computer and allows up to three terminals, monitors or other input devices such as bar code readers, mag stripe units and specialized key pads to be interconnected. Semiconductor circuits are utilized to provide isolation of the prime signals in the RS232 interface. Each port has a switch associated with it for reversing Pins 2 and 3 of its respective RS232 connector. The signals that are isolated include the selected Transmit Data Line and Pins 4 and 20. Each port features a Female connector. The main port consists of a DB25 (Male) connector for connection to a modem, printer or computer. Made in U.S.A.

TB31	3 to 1 RS232 Sharing Device	99.00

RoHS Compliant Telebyte TB8381 RS422 DIN Rail Mounted Opto Isolator

The TB8381 is an RS422 DIN Rail mounted Opto Isolator which allows re-generating and extending the distance of RS422 networks while maintaining optical isolation between the ports. The TB8381 supports RS422 links to a maximum length of 3,300 feet or 1 km at any data rate up to 115 Kbps. Full-duplex transmission is accommodated on two twisted pairs. The TB8381 includes TD and RD LED's as well as a built-in power supply. The power input is standard for 110 Volts/60 Hz. All the inputs and outputs are via screw terminals located on the top and side surfaces of the TB8381. A full complement of dip switches is provided for pull up and pull down resistors on all received data lines as well as terminating loads for transmitters and receivers. The user also has the ability to configure the grounding scheme for the four wire links.

TB8381	RS422 DIN Rail Mounted Opto Isolator	269.00

Universal Modify and Test Set (UMATS) - The Ultimate Tool for the Datacom Specialist

The UMATS brings all V.35, RS232, V.24 RS449/RS422, RS530, RS530A and V.11 specified interface signals to the switch and jump area. This hand held, battery or AC powered unit will support most current interface standards. Furthermore, a bank of built-in level shifters allow for conversion from one interface to another; V.35 can be converted to RS232, RS422 to RS232, or RS530 to V.35, etc. Each level shifter is also connected to a Tri-State LED to provide monitoring of four balanced signals and four unbalanced signals. The UMATS is a perfect way to:

- Test the design of expensive cables before they are implemented.
- Troubleshoot V.35, RS449/RS422, X.21, RS530, RS530A, RS232, V.24, V.11, etc. cables and interfaces.
- Convert one interface to another allowing for use of an RS232 data scope with a RS530 interface, or V.35 data scope with an RS449 interface, etc.
- Temporarily bridge the communication link between two devices in a null modem configuration.
- All major signals are switched and have double termination to eliminate the need for daisy chain jumpers.
- Each set includes 30 point to point jumpers, a wallmount transformer, rugged protection case, instruction cards and a DB37, DB25, V.35 extension cable set.
- V.35 Interface - Connector: two DTE/DCE 34-M female. RS449/RS422 - V.11 - X.21 interface. Connector: two DTE/DCE DB37-S female RS530-RS232 - V.24 interface. Connector: two DTE/DCE DB25-S female.

UMATS	V.35 Universal Modify and Test Set	625.00

ICP DAS USA I-7000 Series Data Acquisition I/O Modules

The I-7000 Series Modules from ICP DAS support a wide range of industrial control signals and systems. The I-7000 PC-based data acquisition modules are very flexible meeting many types of industrial applications. These modules can provide PID control, motion control, data acquisition and many other complex functions including data log functions. Each module is addressable allowing up to 256 units to be linked together via a two-wire RS-485 connection. Both analog and digital options are available.

I-7015	6 Channel Analog RTD Module	375.00
I-7017	8 Channel Analog Input Module	230.00
I-7018	8 Channel Analog Thermocouple Input Module	235.00
I-7021P	16 Bit Analog Output Module	265.00
I-7041	14 Channel Digital Isolated Input Module	135.00
I-7044	4 Channel Isolated Digital Input and 8 Output Module	145.00
I-7051	16 Channel Isolated Digital Input Module	165.00
I-7055	8 Channel Isolated Digital Input and 8 Output Module	155.00
I-7060	4 Channel Isolated Digital Input and 4 Relay Output Module	140.00

E-mail: sales@L-com.com **Fax:** 978-689-9484 **Toll Free:** 1-800-343-1455 **Hours:** Mon - Thu 8am-6pm, Fri 8am-5pm EST
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Serial Communications Accessories

Item #	Description	List Price

Telebyte RS232 Fiber Optic Line Drivers - Achieve Distances to 2km

The TB271 Series of Fiber Optic Line Drivers provides maximum protection from ground currents and noise interference between equipment as well as increases operating distances to up to 2km. Four versions are available, supporting RS232 serial interface. The TB271 Series achieves power from the Transmit Data line, whereas, the TB271A series has an external power supply. DB25M and DB25F versions available of each. Includes a 1-year manufacturer's warranty. Made in U.S.A.

TB271M	RS232 Fiber Line Driver, DB25M, Self Powered	145.00
TB271F	RS232 Fiber Line Driver, DB25F, Self Powered	145.00
TB271AM	RS232 Fiber Line Driver, DB25M, Externally Powered	152.00
TB271AF	RS232 Fiber Line Driver, DB25F, Externally Powered	152.00

RoHS Compliant Telebyte RS422 and 485 Fiber Optic Line Drivers - Protect Against Noise and Ground Loops

Similar to the TB271 series except designed for RS422 and RS485. Both units utilize DB25F and dual fiber ST ports. For use with duplex multimode fiber optic cabling. Includes a 1-year warranty. Made in U.S.A.

TB272F	RS422 Fiber Line Driver, DB25F, Externally Powered	152.00
TB276F	RS485 Fiber Line Driver, DB25F, Externally Powered	152.00

Telebyte RS232 Fiber Optic Auto Powered Line Driver

The TB9271 RS232 fiber optic auto powered line driver features a standard DB9 Female interface and Dual ST style fiber connectors. It can be installed in applications requiring very high data transmission rates, offers resistance to Electromagnetic Interference (EMI) and isolation from lightning-induced current surges and ground loops. The unit employs an RS232 data interface, can achieve 56Kbps asynchronously and operates in either half- or full-duplex modes over dual fibers up to 2km in length.

TB9271	RS232 Fiber Optic Auto Powered Line Driver	139.00

RoHS Compliant Telebyte Singlemode to Multimode Fiber Converter

The TB279 provides transparent conversion between fiber optic devices utilizing multimode fiber and those with singlemode fiber. Features of the TB279 include the ability to operate from DC to 2.5Mbps. This allows a variety of applications to take advantage of the transmission capability of the device and fiber cable. The TB279 is powered by a wall-mounted 12VDC adapter. 1-year manufacturer's warranty.

TB279	Singlemode to Multimode Converter	649.00

RoHS Compliant Telebyte RS232, 422 or 485 Fiber Optic Modem - DIN Rail Mountable

The model TB8277 is a unique asynchronous fiber optic modem whose optical interface can operate in either point to point or ring (daisy chain) configurations and whose electrical interface can also operate in point to point or multi-drop configurations depending on the user selected interface. The electrical interface is switch selectable between RS232, RS422 and RS485. The TB8277 is supplied with a power cord for the DC input. An optional AC power adapter is available for installations where 12 VDC is not accessible.

TB8277	DIN Rail Fiber Optic Media	259.00
TB8277-110PSU	Optional 110VAC Power Supply	14.00

RoHS Compliant Telebyte RS232 to RS422 Interface Converter - Self-powered DB9 Connector

Adding an RS422 interface to a PC is now a snap. The TB253P Interface Converter does this for full duplex signals at data rates up to 19.2 KBPS, without requiring any AC or DC power. The unit features a DB9F connector, (allowing it to be plugged directly into any one of the PCs Comm ports) and RJ11 (6x4) jack. Made in U.S.A.

TB253P	RS232 to 422 Interface Converter, DB9F, Self-powered	69.00

RoHS Compliant Telebyte RS232 to RS422 Interface Converter - Non-powered DB25 Connector

The TB263 RS232 to RS422 interface converter offers the user the benefits of other converters without the problem of supplying power. With only TD, RD and Ground the TB263 will provide operation at any allowed speed over 8,000 feet of twisted pair into a load of 120 Ohms. DB25 male or female connector (specify) and 4 screw terminals and RJ11 (6x4) jack. Made in U.S.A.

TB263M	RS232 to 422 Interface Converter, DB25M, Non-powered	79.00
TB263F	RS232 to 422 Interface Converter, DB25F, Non-powered	79.00

Economy RS232 Fiber Optic Line Driver

The ICC45B-002 Fiber Optic Line Driver provides users a compact, low cost solution for extending RS232 data over extended distances by using fiber optic cabling. The ICC45B-002 features a DB25F input connector and duplex ST connectors for an output. The converter is port powered and is covered by a 1-year manufacturer's warranty.

ICC45B-002	Economy RS232 Fiber Optic Line Driver	59.00

Economy RS232 to RS485 Interface Converter

This RS232 to RS485 Interface Converter is an economical solution to interface problems. These devices are self-powered and feature a DB25F RS232 port and either a 4-pin terminal block or a RJ45 jack for connecting devices together. Includes a one year manufacturer's warranty.

ICC47A-013	Economy RS232 to RS485 Interface Converter with 4-Pin Terminal Block	39.00
ICC49A-013	Economy RS232 to RS485 Interface Converter with RJ45 Jack	39.00

Economy RS232 to V.24 Interface Converter

The ICC47B-014 model RS232 to V.24 Interface Converter provides users with an economical way to extend RS232 signals using standard twisted pair cabling. The ICC47B-014 features a DB25F input connector and a 4-pin terminal block for the V.24 side. The ICC47B-014 supports data rates up to 128Kbps and distances up to 1000 meters. Includes a 9VDC external power supply and a one year manufacturer's warranty.

ICC47B-014	Economy RS232 to V.24 Interface Converter with 4-Pin Terminal Block	39.00

Economy RS232 to Current Loop Converter

The ICC12MP is the perfect economical solution for converting RS232 to Current Loop. The ICC12MP is bi-directional and contains both an active driver (transmitter) and passive receiver. The converter has one Male DB25 connector on the RS232 side and a 4 screw terminal block as well as an RJ11 Jack on the Current Loop side. The product ships with a DB25 gender changer for added flexibility and an external 9V DC power supply (100mA). Furthermore, the ICC12MP can receive power from pin 9 of the RS232 connector at 60mA. Maximum distance supported between devices is 4,000 feet.

ICC12MP	Economy RS232 to Current Loop Converter	49.95

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L-com offers the complete selection of listed manufacturer's products.



















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Video clip at www.L-com.com/videos/A07



Test Shielded RJ45

DXB66

DXB66 UTP, FTP and Coaxial PROFESSIONAL TEST SET for LAN Cabling and Premise Wiring

L-com's DXB66 Remote Cable Tester provides accurate testing of premise cabling and patch cords used in local area networks. The unit verifies pairing following the EIA/TIA568 standard. It also tests shield continuity of shielded RJ45 connectors which is required in European building installations and areas where noise is prevalent. BNC equipped, coaxial cabling such as Ethernet 10Base-2 can also be tested.

- Sequencing LEDs verify continuity of 4 pair UTP/FTP cabling following EIA/TIA568 A or B pair designations (Ethernet 10Base-T, Token Ring and TP-PMD are all accounted for within the EIA568 code)
- Tests for presence of shield in Foil Twisted Pair (FTP) or Token Ring - Shielded Twisted Pair (STP) cabling
- Internal circuitry is fully protected against live cable damage
- BNC coax test checks Ethernet 10Base-2 busses and patch cords (adapters are available for testing other coaxial terminations)
- Dual colored LEDs identify shorted, open, or reversed pairs
- Remote and master units separate for premise wire tests and reattach for patch cord checking
- Convenient size with exclusive slide lock mechanism allows effortless patch cord and premise cable testing
- Easy to operate with all instructions listed on the faceplate
- Adapters available for testing Token Ring cabling utilizing Type A or B, DB9, or RJ45 connectors
- Runs on one 9V alkaline battery (included)
- Includes belt mountable soft leatherette case, 2 screened patch cords and informative instruction booklet

Item #	Description	Code	List Price
DXB66	UTP, FTP and Coaxial Professional Test Set	A, C, D, E, F	69.00
DXB66-CC	Additional DXB66 Carrying Case with Beltstrap		12.95

Specifications:

Display	5 LEDs Master 2 LEDs Remote	Maximum cable length (4pr.)	tested to 1000 ft
Power	9V Alkaline battery	Over voltage protection level (max)	30 V dc
Current drain (on)	25 mA	Allowable maximum current @ inputs	0.3 A dc
Normal power consumption	225 mW	Continuous withstand overvoltage rating	20.0 V dc @ 0.1 A for 5 seconds
Maximum power consumption	630 mW	Master & Remote dimensions connected	6.0 in x 2.3 in x 1.0 in
Minimum battery operation voltage	6.0Vdc	Master and Remote weight	6.0 oz.



DXB64A

DXB64A Triple Function Cable Tester - 10Base-T, Token Ring (RJ45) and EIA568

This easy-to-use sequential scan cable tester provides instant testing and identification of today's most popular UTP cabling schemes. Four, two-color LEDs verify continuity of up to four pairs while instantly detecting opens, shorts and miswires. Specially designed slide attachment allows tester's master and remote sections to be separated when checking installed wiring. Blinking light identifies power on and low battery. Small and light enough to fit neatly in a briefcase, toolbox or pocket. Equipped with 9V alkaline battery and protective leatherette case.

- Equipped with RJ45 jacks
- Tests 4 pair UTP cabling following EIA/TIA568A or B standards
- Master and remote units split apart for premise runs, then reattach for bench testing
- 4 dual polarity LEDs sequence from left to right identifying shorts, opens and miswires
- Supplied with one 9V Energizer alkaline battery and carrying case

DXB64A	EIA568 (RJ45) Remote Cable Tester	B, C, D, E, F	39.95

Our most popular unit for ethernet cable testing



DXB65

DXB65 Dual Function Ethernet Cable Tester - 10Base-T and 10Base-2 (ThinNet)

Specially designed for the Ethernet user. This tester is a full-function BNC coaxial tester and 10Base-T UTP tester rolled into one. Detects shorts and opens on coaxial lines terminated with male BNC connectors and also tests for continuity of the 1-2 and 3-6 pairs used in 10Base-T wiring. Tester master and remote units slide apart for checking installed wiring. Auto shut-off when cable is disconnected. Small, lightweight and easy to use. 9V alkaline battery and convenient leatherette carry case supplied.

- Equipped with RJ45 and BNC jacks
- Tests 2 pair UTP cabling used in 10Base-T Ethernet runs.
- Tests coaxial cabling terminated with BNC connectors used in 10Base-2 Ethernet busses
- Master and remote units split apart for checking premise runs and installed coaxial busses.
- Can be used for locating shorts in coaxial patch cords or T adapters
- Supplied with one 9V Energizer alkaline battery and carrying case

DXB65	Ethernet 10Base-2 (BNC) & 10Base-T (RJ45) Remote Cable Tester	A, B	39.95



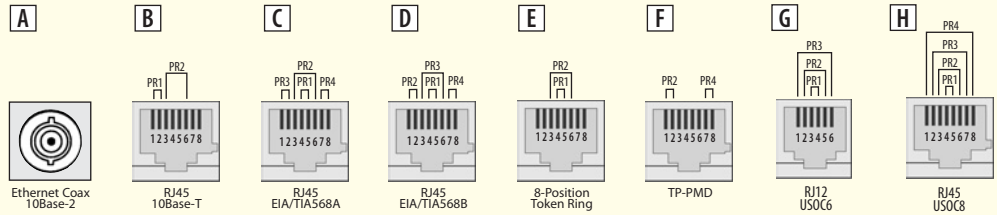
DX45

L-com's Modular Patch Cord Testers Allow Benchtop Testing of Popular Cable Types

The DX45 modular patch cord tester quickly and easily tests the continuity of modular cables. Simply plug both cable ends into the unit and observe the indicators on the faceplate. Dual colored LED's verify if cabling is properly wired for data use (straight through pinning) versus telephone use (crossed pinning). Additionally, the DX45 identifies Opens in a cable. The DX45 is intended for cabling terminated with 8 position modular plugs (RJ45), and 6 position modular plugs (RJ12/11) using the included inserts. The DX45 is powered by a single 9V alkaline battery already installed for instant use. Outside dimensions: 3.8" x 2.4" x 1.1". Features a 1-year manufacturer's warranty.

DX45	8 Position Modular Patch Cord Tester (RJ45) with Inserts	G, H	22.95
DXBCC	Carrying Case for DX Testers		3.99

Code shows tester ability to check:



Distributors Wanted - Call 1-800-343-1455

RoHS Compliant One or more items in a product family are RoHS compliant and/or partially compliant. Access www.L-com.com for latest status.

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L-com Cable Testers

Item #	Description	Code	List Price

Portable Cable Testers - Indispensable Tools for the Cable Installer or Technician

Our DX series of cable testers are invaluable tools for bench and remote testing of modular, coaxial and twinaxial cable testing. All the units are built within a black ABS plastic case which can handle the abuse of even the roughest installer or technician. Modular patch cord testers utilize two high grade modular jacks for input and output connection to telco cables. Coaxial and twinaxial testers come complete with termination units which allow the technician to test remote cable runs. All of our DX and DXB series testers are exclusively designed and manufactured by L-com. Custom designs will be considered for volume users or OEM's by calling our Technical Support Department at 1-800-343-1455.

Coaxial Remote Cable Testers for Testing Extended Cable Runs

L-com's coaxial remote cable testers facilitate fast, simple continuity testing of common types of cabling. Each kit is equipped with a tester unit and a terminating device which allows verification of permanently installed cabling as well as patch cords. To test, just fasten the termination device to one end of cable and verify results at the opposite end with the master unit. Good continuity, shorts and opens, are all identified by reading the LEDs on the faceplate. The DX35A is used for coaxial cables with BNC, TNC, or Wang (BNC+TNC) connectors. Each model includes an installed 9V alkaline battery as well as a carrying case for storage. Appropriate terminators are included. Outside dimensions are: 3.8" x 2.4" x 1.1".

DX35A	Coaxial (BNC and TNC) Remote Cable Tester	A, B	24.95
DXBCC	Carrying Case for DX Testers		3.99

BNC Coaxial Tester with Intermittent Grabber

The DXB4 contains circuitry for locating intermittent shorts that can be almost impossible to locate. Simply plug both ends of a coaxial cable into the BNC jacks and observe the three LEDs. Intermittent shorts that are normally shown as a flickering LED or a moving needle on an Ohm meter are locked-on with the exclusive intermittent grabber circuitry. The tester can be combined with adapters to test terminations other than BNC, SMA or F adapters. Unit comes complete with an installed 9V alkaline battery. Leatherette case supplied only with kits.

DXB4	BNC Coax Cable Tester with Intermittent Grabber	A	17.50
DXBCC	Carrying Case for Tester and Terminators		3.99

Coax Adapter Kit for L-com's DX Testers

This flexible adapter kit allows you to test coaxial cables terminated with SMA, RCA and F style connectors. These versatile adapters easily connect to the BNC ports of L-com's DX Coax testers. Now, with one test kit it is possible to test coax cables used in CATV, Audio and Data applications. Includes a 1-year manufacturer's warranty.

DX-COAX-ADPT	Coax Adapter Kit	C, D, E	12.99

MICROPULSE™ Fiber Optic Light Source - Simple Location of Fiber Runs

This unit eases the difficulty of tracing fiber optic cable runs within a building by using new MICROPULSE technology. Presently, to trace multimode terminated fiber runs, two types of equipment can be used. The first, a laser source, is expensive and potentially dangerous to one's eyesight if viewed directly. These units work well for locating breaks in fiber runs, however, the cost of the units often exceed $500. The second method is to use an incandescent light source (simple flashlight) with a coupler to connect to the fiber optic termination. These devices produce a low intensity light signal which is difficult to see by the human eye at the far end of the run.

L-com's solution to this problem was simple: Produce a low cost, high intensity light source that is safe to use and easy for the eye to locate. This was done by creating exclusive circuitry that produces an extremely bright red light source which is focused into the fiber optic cable. The light is then pulsed in an on-off manner that is easier for the human eye to locate, especially from a group of fiber runs commonly found in wiring closets or central wiring points. A multi-use coupler is also utilized so that connection to ST, SC, FC, RSD and FSD can be done without additional coupling adapters or cables.

- Ultra High Intensity Red Source LED (660nm, 1400 mcd)
- Exclusive MICROPULSE Signal Pulse Technology (Patent Pending)
- Multi-Use Coupler Accepts Fiber Connectors with 2.5mm Ferrule
- Dual Output - Pulsed or Steady Light Signal
- Runs on One 9V Alkaline Battery (Included)

DXL10	MICROPULSE Fiber Optic Light Source	39.95

Micropulse™ Fiber Optic Light Source Kit - Everything for Tracing Multimode Runs

We now offer in kit form our popular Micropulse Fiber Optic Light Source with common adapters used in toning out fiber optic runs. Included in the kit is the DXL10 Micropulse light source, 2 ST-ST simplex couplers, 1 FC-FC simplex coupler, 1 SC-SC duplex coupler, 1 SC-ST duplex adapter and 1 simplex ST-SC multimode patch cord. Also included is a plastic box for organizing the couplers and a belt mountable carrying case. A $160.00+ value if purchased separately.

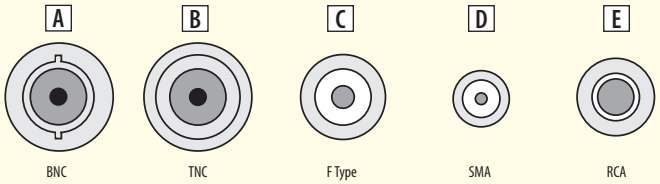
DXL10K1	MICROPULSE Fiber Optic Light Source Kit	69.00

Shielded RJ45 Breakout Box - Exclusively Designed and Manufactured by L-com

L-com's DXR45S breakout box is intended for modifying the wiring in modular cords terminated by RJ45 plugs. The unit incorporates two high grade shielded RJ45 jacks, a nine position dip switch and dual nine position headers. Jumper wires are included in the rear compartment. This unit does not utilize a battery, its intention is for modifying modular cable wiring only.

DXR45S	Shielded RJ45 Breakout Box	17.00

Code shows tester ability to check:





DX35A



DXB4

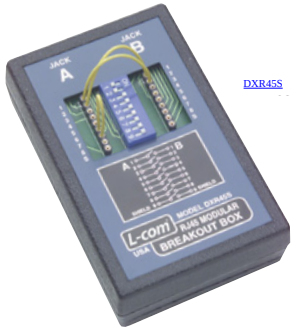

DX-COAX-ADPT

Exclusive Made in USA PATENTED



DXL10


DXL10K1
Kit



DXR45S

Distributors Wanted - Call 1-800-343-1455

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Item #	Description	List Price



AEMC-CA7024



AEMC-CA7026

AEMC CA7024 TDR Fault Mapper

The AEMC Fault Mapper is a hand-held, alpha-numeric, TDR (Time Domain Reflectometer) Cable Length Meter and Fault Locator, designed to measure the length of electrical and communication cables. It can also indicate the distance to a fault in the cable (open or short), given access to only one end of a two or more conductor cable. By incorporating fast-edge step TDR technology, the CA7024 measures cable length and indicates the distance to open or short circuit faults to a range of 6000 ft (2000m), on virtually any type of cable. The CA7024 indicates the cable length or fault distance and description alpha-numerically on a 128 x 64 graphical LCD. Includes soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.

AEMC-CA7024	TDR Fault Mapper	495.00

AEMC CA7026 Fault Mapper Pro Tele/Coax/Parallel Cable Tester

The Fault Mapper Pro is a hand-held graphical TDR (Time Domain Reflectometer) designed for identifying and locating faults on power and communication cables, given access to one end only. The CA7026 measures cable length and indicates the distance to fault cables and terminations to a range of 11,700 ft (3500m) on virtually any type of cable of two or more conductors. The CA7026 shows a reflection profile of the cable under test as an oscilloscope-like trace on a 128 x 64 pixel graphical LCD. A movable cursor can be aligned with points on the trace; the distances displayed will automatically update the cursor position. Includes soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.

AEMC-CA7026	Fault Mapper Pro Tele / Coax / Parallel Cable Tester	845.00



AEMC-CA7028



AEMC-TR02

AEMC CA7028 Wire Mapper Pro LAN Cable Tester

The Wire Mapper Pro is a hand-held structured cable mapping and troubleshooting tester designed for use on UTP, STP, FTP and SSTP cabling equipped with RJ45 connectors and wired to either TIA568A/B (ISO 11801 and EN 50137), USOC or ISDN specifications. It detects open circuit pairs, shorts, crossed wires, crossed pairs, reversed pairs, split pairs and shield faults. The CA7028 has the ability to measure and indicate the length of the cable under test, using a Vp (Velocity of Propagation) set by the user, from a built-in library or manually. It will measure and report the length of all four pairs of wires in the cable under test. It also generates an audible tone that is transmitted into all four pairs on the cable under test. Includes soft carrying case, remote ID (#1), two patch cords, four 1.5V AA batteries and user manual.

AEMC-CA7028	Wire Mapper Pro LAN Cable Tester	495.00



FNMT8200-32A

RoHS Compliant AEMC TR02 Tone Receiver/Cable Tracer

The TR02 Tone Receiver/Cable Tracer is a small, hand-held tracer that will aid in the identification of tone carrying wires without piercing their insulation. It has a self-contained amplifier and a rugged, moisture resistant mylar cone speaker. When used in conjunction with the tone transmitter function of the AEMC cable testers CA7024, CA7026 or CA7028, wire tracing and locating is quick and efficient.

AEMC-TR02	Tone Receiver / Cable Tracer	49.00

Fluke Networks MicroScanner™ Pro Network Tester

The Fluke Networks MicroScanner Pro is an all-in-one pocket sized network tester that tests both coaxial (RG6, RG59, etc. for CATV/CCTV) and all twisted pair cable (UTP/STP/SSTP). The MicroScanner features an active network identification mode that flashes hub ports and shows if a network tap is operating at 10Mbps or 10/100Mbps and whether it is full or half duplex capable. MicroScanner Pro ensures basic continuity and correct terminations by verifying end-to-end continuity on all four-wire pairs and if the cable under test has the correct wiring scheme (either 568A or 568B). The MicroScanner Pro quickly identifies a fault allowing you to see opens, shorts, crossed pairs, split pairs or any miswires. With the push of a button, MicroScanner Pro's length function uses Time Domain Reflectometry (TDR) to measure the full length of a cable. It determines whether the cable is open or shorted and the distance to the fault. The length measurement is also useful for billing and inventory purposes. MicroScanner Pro's Toner function allows installers to generate a tone for the optional MicroProbe to trace and locate hidden cabling in walls, ceilings or distributions boxes.

FNMT8200-32A	Fluke MicroScanner Pro Network Tester	549.00





FNMT8200-49A



FNMT8200-53A

Fluke Networks MicroMapper™ Network Tester

The MicroMapper quickly and easily tests twisted pair cabling, giving you visibility of opens, shorts, crossed, reversed and split pairs. Just push the TEST button and MicroMapper will automatically scan all wire pairs for any existing faults in your cable. MicroMapper's built-in tone generator works with the IntelliTone Probe allowing you to trace cable through walls, floors, and ceilings. The MicroMapper also includes a remote unit that allows one person to test installed cabling or patch cords. The MicroMapper kit includes: MicroMapper and MicroMapper Remote, patch cable, 6-volt alkaline battery and user guide.

FNMT8200-49A	Fluke Networks MicroMapper Network Tester	139.00
FNMT8200-53A	Fluke IntelliTone 100 Probe	89.00



FNMT8200-50A

Fluke Networks IntelliTone 100 Toner and Probe Kit

The Fluke Networks IntelliTone 100 Toner and Probe Kit allows users to quickly identify network ports and cables using digital signaling methods. Simply attach the IntelliTone Toner to a cable and set the sensing mode on the IntelliTone Probe. IntelliTone technology energizes cable conductors with a smart, synchronized digital signal. Multiple tone types occur in the signal that help you to locate, isolate and validate a cable. Includes: IntelliTone 100 Toner and 100 Probe, coax F connector adapter, RJ11 and RJ45 patch cables, test leads with alligator clips, lanyards, owners CD and quick start guide, (2) 9 volt batteries.

FNMT8200-50A	Fluke Networks IntelliTone 100 Toner and Probe Kit	159.00



ENT-PRO

Fluke Networks NetTool™ Inline Network Tester

Fluke Networks NetTool Inline Network Tester comes packed with the features IT professionals need. The NetTool can be connected inline between two network devices, listen to the traffic between them and detect common connectivity problems. The NetTool can also automatically ping key devices to verify connection to routers, servers and printers. Users will be able to spot available network resources by seeing MAC and IP addresses, subnet and services offered by active servers, routers and printers. The NetTool Tester can also look for the common wiring problems by testing for cable length, shorts, split pairs or opens, including pin-to-pin wiremap. Users will be able to download test results to document network performance and generate network resource reports. Includes 4 AA batteries and a 1-year manufacturer's warranty.

ENT-PRO	Fluke Networks NetTool Inline Network Tester	2100.00

RoHS Compliant One or more items in a product family are RoHS compliant and/or partially compliant. Access **www.L-com.com** for latest status.

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Fiber Optic Testers

Item #	Description	List Price

Fiber Optic Power Meter for Multimode and Singlemode Cabling

The FOM120 is a general-purpose power meter suitable for both premise and outside plant applications. This unit is ideal for measurement of optical power and optical loss/attenuations in a fiber optic network. The FOM120 meter is calibrated at the four most common industry standard wavelengths 850nm, 1300nm, 1310nm and 1550nm for both singlemode and multimode transmitters. The 1mm Germanium detector offers a broad dynamic range of ~60dB which far exceeds the requirements of the majority of users. The FOM120 utilizes a 2.5mm universal connector for both ST and SC connections (other connector styles available upon request). The compact handheld meter (4.94" x 2.75" x 1.2") has an Auto-Shutdown feature to preserve battery life. Runs on 2AA Batteries and includes a 1-year manufacturer's warranty.

FOM120	Fiber Optic Power Meter for Multimode and Singlemode Cabling	495.00

Fiber Source for 850/1300nm Fiber Optic Cables

The FOS420 light source is for premises and campus cabling networks with multimode fiber, or singlemode fibers under 5km. The ST connector outputs can be adapted to any cable plant with hybrid adapters or hybrid cables. The FOS420 becomes a powerful low cost troubleshooting and maintenance tool when used with an Advanced Fiber Solutions FOM120 power meter.

FOS420	Fiber Source for 850/1300nm Fiber Optic Cables	595.00

Multimode Fiber Optic Test Kit

The FTK51MM Multimode Fiber Optic Test Kit allows users to quickly test multimode fiber cabling. The kit features a power meter and light source in a convenient carry case. The power meter supports 850/1300/1310/1550nm light sources and features a 2.5mm universal connector for both ST and SC connections (other connector styles available upon request). The kit's power meter is calibrated at the four most common industry standard wavelengths 850nm, 1300nm, 1310nm and 1550nm for both singlemode and multimode transmitters. The 1mm Germanium detector offers a broad dynamic range of ~60dB which far exceeds the requirements of the majority of users.

FTK51MM	Multimode Fiber Optic Test Kit	1095.00

Plastic Optical Fiber (POF) Test Kit

The Advanced Fiber Solutions POF test kit is the perfect, portable solution for testing both plastic and glass optical fiber cables. The FTK51POF includes the OM110 power meter, which is designed for POF (plastic optical fiber) and short wavelength applications (visible and near infrared). The OM110 optimizes a Silicon detector suitable for large core fibers. It is the ideal tool for working with shorter wavelengths used with glass, plastic or multimode fibers. Additionally, the FTK51POF features the OS417-MD source which houses a 665nm LED in a modular adapter, which makes it adaptable to any connector style.

FTK51POF	Plastic Optical Fiber (POF) Test Kit	905.00

Fluke Networks SimpliFiber™ Fiber Optic Test Set

The Fluke Networks SimpliFiber Series offers users a compact and rugged way to test fiber optic cabling. The SimpliFiber has an intuitive four-button panel, a large LCD display screen and a serial port. Save 100 test results in the meter's non-volatile memory and eliminate the need to manually write down results, preventing potential transcription errors. SimpliFiber results can be quickly uploaded to a PC using the free companion Scanlink Tools software allowing users to manage test results, print professional reports or export data into popular spreadsheet formats. The dual wavelength source incorporates an 850nm LED and a 1300nm LED. The optical power meter is calibrated for accuracy at 850nm, 1300nm, 1310nm and 1550nm. The meter features the ability to save a reference power level, allowing a direct display of fiber loss.

FN8250-02	SimpliFiber Meter and 850/1300 ST Source	1379.00
FN8250-04	SimpliFiber Meter and 850/1300 SC Source	1479.00
FN8251-01	SimpliFiber 1310 Laser Source ST	1069.00
FN8251-11	SimpliFiber 1310 Laser Source SC	1069.00
FN8251-02	SimpliFiber 1550 Laser Source ST	1629.00
FN8251-12	SimpliFiber 1550 Laser Source SC	1595.00

Fluke Networks Fiber Installation Test Set

The Fluke Networks Fiber Installation Test Set gives installers the ability to accurately test and verify connections in the field. The test set features a compact, rugged fiber tester that ensures equipment uptime and keeps the job moving. This set includes the Fluke Networks FT120 multimode Fiber Viewer for inspecting fiber end-faces. The tester includes the ability to test multimode fiber at 850nm and 1300nm wavelengths and also works with an optional Fluke Networks Laser Source for measuring loss on singlemode fiber. The FNTK200FV Pro Package is ideal for contractors whose fiber installation needs require automated test data recording, results management and report generation. Both packages include the Fluke Networks Fiber Optic Reference Guide - an in-depth guide covering the latest in fiber optic technology.

FNTK100FV	Fluke Networks Basic Fiber Installer Test Set	1595.00
FNTK200FV	Fluke Networks Professional Fiber Installer Test Set	2100.00
FNLS	Laser Source Option 1310/1550nm	3179.00

200X Professional Grade Handheld Fiberscope - Field or Lab Viewing of Fiber Connectors

The FOTH200 is a quality 200X hand held fiberscope that is the ideal tool for inspecting the polish on fiber optic connectors. The unit is made of lightweight cast aluminum making it rugged yet easy to transport. Laser filtered rubber eyecup and ergonomic design is comfortable to use even for long periods. Self illuminated via AA batteries and LED source. Included is a universal adapter which mates with all 2.5mm ferrules such as ST, SC and FC, other adapters are available. One year warranty.

FOTH200	200X Handheld Fiberscope with Universal Adapter	195.00
FOTH-VAPC	8° Adapter for 2.5mm Ferrule (ST, SC, FC)	75.00
FOTH-LC	LC Adapter	45.00


FOS420

FOM120


FTK51MM
FTK51POF


FN8250-02


FN8251-01
FN8251-12


FNTK100FV


FNTK200FV


FNLS

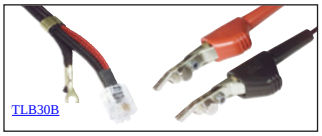

FOTH200

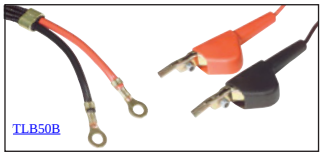
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TLB200

TLB80


TLB10B


TLB30B


TLB50B


TLB40B

TLB45B


TKP100

Kit


DXF11

EC-LMTJ


CS925

CK6

CS925KIT

Item #	Description	List Price

Lil' Buttie Pro Hands Free Telephone Line Test Sets

Small enough to fit in a shirt pocket, the Lil' Buttie Pro is packed with features typically found on more expensive test sets. This unit is ergonomically designed to rest comfortably on the shoulder with proper microphone and speaker placement. The high impact, shock resistant ABS housing is designed to withstand the demands of everyday use. Test cord included. Made in the USA. 1-year warranty.

TLB200 Lil' Buttie Pro FEATURES:

- Five Number Memory
- Tone and Pulse Dialing
- Microphone Mute
- Last Number Redial (19 Digits)
- Electronic Ringer
- Amplified Line Monitor Volume
- Modular Cordset Attachment
- Headset for Hands-free Use
- Auto Power Off
- **LCD Display Shows:**
 - On Hook Voltage
 - Number Dialed
 - Off Hook Current
 - Set-up Info
- Stored Numbers
- Continuous Polarity Indication
- Battery Condition
- Call Waiting/Caller ID
- Caller ID Errors

TLB200	Lil' Buttie Pro Test Set	179.95
TLB80	Cordura Pouch for Lil' Buttie Test Sets	19.95
TLB10B	Lil' Buttie Spare Cable with Alligator Clips	19.95
TLB30B	Lil' Buttie Spare Cable with Bed of Nails Clips	26.95
TLB50B	Lil' Buttie TS-22 Replacement Cord with Piercing Pins	21.95
TLB40B	Lil' Buttie Spare Headset	15.95
TLB45B	Lil' Buttie Deluxe Headset	19.95

Item #	Description	1-9	10-24	25-99	100-249	250-499

Inductive Tone Generator and Probe Kit - Useful For Identifying Cable Runs

This kit is especially helpful in identifying cabling that is run inside walls or trying to identify a line from a "birds nest" of tangled cables. The tone generator emits a signal onto the copper cabling and then an inductive probe is used to find the other end. The probe makes a beeping sound when it is placed near the cable that has the signal. Unit has three built in tone types, volume control and auto shut off. Sold in kit form including generator, probe, test leads and a rugged belt pack with D-ring and belt loop. Runs on two 9V batteries which are included. Includes a 1-year manufacturer's warranty.

TKP100	Tone Generator and Probe Kit	119.95	110.35	100.76	91.16	CALL

TIP: *Using the TKP100 Tone Generator and Probe Kit*

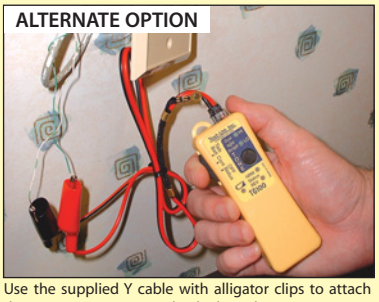
Video clip at www.L-com.com/videos/A02

STEP 1



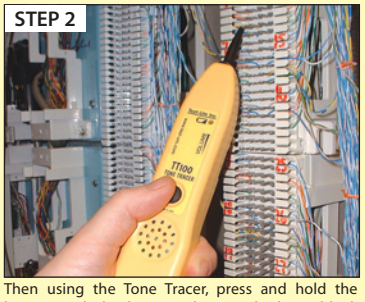
Using the supplied RJ11 patch cable, connect one end into the Tone Generator and the other end into the pre-wired jack. Next, push the tone button to send a tone across the wires.

ALTERNATE OPTION



Use the supplied Y cable with alligator clips to attach the Tone Generator to individual conductors.

STEP 2



Then using the Tone Tracer, press and hold the button and slowly scan the punch down block until you hear a distinct loud tone. You have now identified the cables location.

Type F Pocket Toner - Great For Checking Household Coaxial Cabling Runs

This Pocket Toner is an extremely handy instrument for identifying and testing coaxial cables terminated with Type F connectors such as those used for cable TV. Ruggedly built, the toner base unscrews creating a remote unit that emits a tone when plugged into the far end of the cable run. Other features include, a Bi-colored LED, which indicates 50-75 Ohm termination and a power switch, which prevents accidental battery drain. Uses 1 standard AAA battery for extra long life and easy replacement. Features a 1-year warranty.

DXF11	Type F Pocket Toner	34.95	32.15	29.36	26.56	CALL

RoHS Compliant In-Line Modular Test Adapter - Allows Circuit Access Without Disrupting Circuit

Use with 2 or 3 pair, RJ11/12 lines. Copper contacts have an angled edge to prevent alligator clips from falling off. Wire color coded for easy ident. Three 2-color LEDs identify activity. Modular jack on the end.

EC-LMTJ	Test Adapter, 3 Pair Modular	9.95	9.15	8.36	7.56	6.77

Professional Grade Cable Splicer Knife and Scissor

These tools are a great addition to any cable technicians tool kit. The CS925 is an industrial grade serrated scissor capable of cutting thin wires and cable jacketing. This tool also has wire stripping notched on one blade as well as a scraper and file on the back of the other. The CK6 is a forged steel splicer knife with red cushioned handle. This tool comes in handy whenever a sharp blade is necessary. The CS925KIT offers both tools plus a heavy duty leather holder that will keep the knife and scissor secured to a tool belt.

CS925	Cable Splicer Serrated Scissor	16.50	15.84	15.18	14.52	CALL
CK6	Cable Splicer Knife	10.90	10.46	10.03	9.59	CALL
CS925KIT	Knife and Scissor with Holder	33.50	32.16	30.82	29.48	CALL

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Label Printers

Item #	Description	List Price

RoHS Compliant Brady TLS2200™ Premium Thermal Transfer Label Printer

The TLS2200 system offers the lightweight of a hand-held printer (2.75lbs), while providing the superior capabilities of thermal transfer printing. The Brady printer features a two-line liquid crystal display and produces smear proof, ultra clear print quality and faster output than most other printers on the market. Useful for printing barcodes as well as text and numbers with crystal clear accuracy on labels up to 2 inches wide. This means you can now print labels for wire markers, patch panels, circuit boards, cable markers and more, faster and easier than ever before. Includes a 6-month manufacturer's warranty.

TLS2200	Premium Brady Thermal Transfer Printer	795.00
TLS2200	Replacement Ribbon for TLS2200	23.28
TLS2200-BP	Replacement Battery	75.95

Brady IDXPERT Handheld Labeling System

The IDXPERT is the first handheld cartridge based labeling system that can print die-cut labels, self-laminating labels and sleeves as well as continuous tapes...You name it IDXPERT prints it! Choose from two keyboard layouts, then select from a wide range of label materials engineered just for your application. That includes wire and cable markers, panel, rack and frame ID, facilities labels and specialty labels for labs and workspaces. The IDXPERT can be used with self-lams, sleeves and 90+ label styles including continuous tapes. Additionally, the IDXPERT can print on materials up to 1.5" wide and prints characters up to 1.25". It also provides 82 symbols plus bar codes.

IDXPERT-ABC	Brady IDXPERT Handheld Labeling System (ABC Layout)	399.95
IDXPERT-KEY	Brady IDXPERT Handheld Labeling System (Keyboard Layout)	389.00

Brady IDPAL™ Thermal Printer

Brady IDPAL hand-held labeling tool offers electrical installers an unbeatable combination - superior labels designed for outstanding adherence to round and curved surfaces - at an affordable price. Weighing only 1.2 lbs. fully loaded (cartridge and batteries), it fits comfortably in the hand, features all the standard electrical symbols and is easy to use. The label cartridge is top-loaded. Built-in intelligence senses tape size and automatically formats the label. A choice of performance tested labeling materials, label widths and lengths and fonts ensures a good match with a variety of applications. It's the ideal tool for wire and cable marking, component marking and general identification. Includes a 6-month manufacturer's warranty.

IDPAL	Brady Thermal Printer	99.00

Item #	Description	Labels per Roll	1-9	10-24	25-99	100-249	250-499

Brady Roll, Cartridge and Wraparound Cable Labels

Brady cable labels are made from durable, high quality vinyl and can be used in any cable labeling application. Please refer to the label dimensions sizing chart located on the bottom right hand side of this page.

Cable Labels for TLS2200 are Available in a Variety of Sizes

PTL19427	Cable Labels, 1.0"L x 1.0"W x .375"H	250	29.95	29.35	28.75	28.15	27.55
PTL31427	Cable Labels, 1.0"L x 1.5"W x .50"H	250	34.95	34.25	33.55	32.85	32.15
PTL21427	Cable Labels, 1.0"L x 2.5"W x .75"H	100	24.95	24.45	23.95	23.45	22.95

Note: Many other label types available, call your L-com Sales Representative for free Brady Literature.

Brady IDXPERT Voice/Data Cable Markers

These labels are Ideal for marking data cabling. The B-427 vinyl self-laminating material offers superior abrasion resistance and resistance to dirt, oils, solvents and water. Each label features a clear, non-printed area, which wraps around and over laminates the printed text. The IDXPERT automatically "multiple repeats" your text in the white print area. These labels are UL Recognized and support a temperature range of -94°F to 158°F (-70°C to 70°C).

XSL-102-427	Vinyl Labels, 0.50"L x 1.25"W x 0.375"H	250	24.95	24.45	23.95	23.45	22.95
XSL-103-427	Vinyl Labels, 1.00"L x 1.25"W x 0.50"H	250	39.95	39.15	38.35	37.55	36.75
XSL-115-427	Vinyl Labels, 1.50"L x 1.25"W x 0.50"H	250	38.65	37.88	37.10	36.33	35.56
XSL-29-427	Vinyl Labels, 0.50"L x 1.25"W x 0.50"H	500	44.95	44.05	43.15	42.25	41.35
XSL-30-427	Vinyl Labels, 0.75"L x 1.25"W x 0.50"H	250	33.95	33.27	32.59	31.91	31.23

Note: Many other label types available, call your L-com Sales Representative for free Brady Literature.

Cable Labels for the IDPAL

PAL375439	Label Cartridge, 21'L x .375"W	N.A.	18.00	17.64	17.28	16.92	16.56
PAL500439	Label Cartridge, 21'L x .50"W	N.A.	18.00	17.64	17.28	16.92	16.56
PAL750439	Label Cartridge, 21'L x .75"W	N.A.	21.00	20.58	20.16	19.74	19.32

RoHS Compliant Cable Labels - Wraparound Style, 3 Sizes to Choose From

CL0515	Cable Labels, .50"L x 1.5"W x .50"H	30	7.50	7.35	7.20	7.05	6.90
CL1150	Cable Labels, 1.0"L x 1.5"W x .50"H	30	9.00	8.82	8.64	8.46	8.28
CL1375	Cable Labels, 1.0"L x 3.75"W x 1.0"H	30	11.00	10.78	10.56	10.34	10.12

Note: CL Series labels are not intended for use with Brady printers.

TIP: *What size cable label is appropriate for the cable that I am using?*

CROSS SECTION	IF YOU HAVE:	THEN USE:
	8 conductor flat silver satin	PTL19427 or CL0515
	Duplex fiber cord (zipcord)	PTL19427 or CL0515
	RG59 coaxial cable	PTL31427, CL0515 or CL1150
	Cat. 5/5E/6 4 pair twisted pair	PTL31427, XSL Series, CL0515 or CL1150
	Category 3 25 pair	PTL21427, CL0515, CL1150 or CL1375





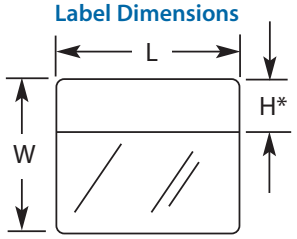






Labels wrap around cable for easy identification.

Label Dimensions



*Note: Height refers to printable area

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